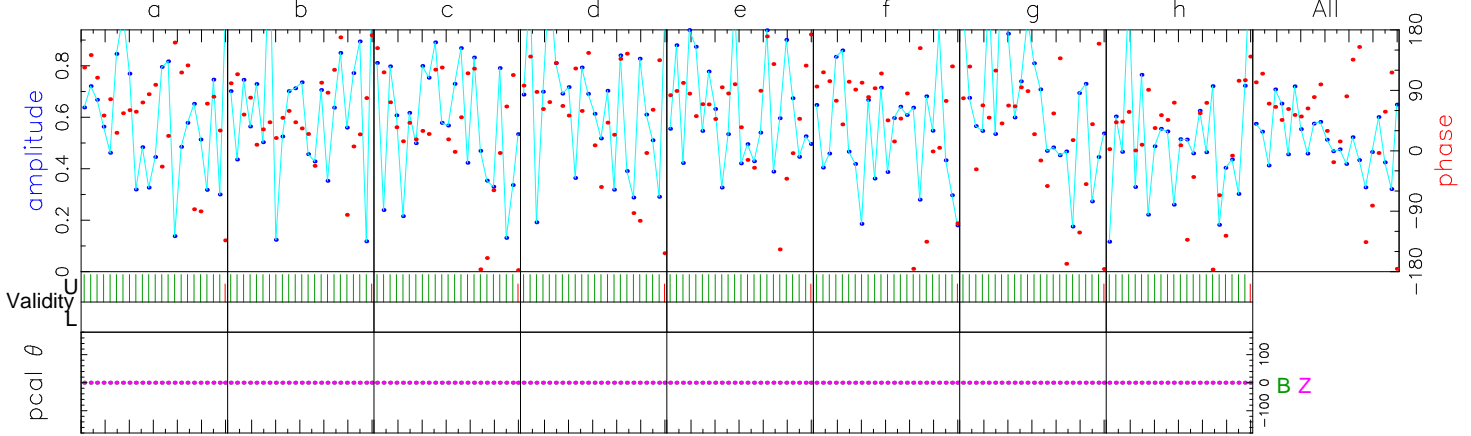


Fringe quality 9

SNR 16.2
Int time 359.266
Amp 0.313
Phase 69.3
PFD 0.0e+00
Delays (us)
SBD 0.000890
MBD 0.000525
Fringe rate (Hz) -0.004513
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

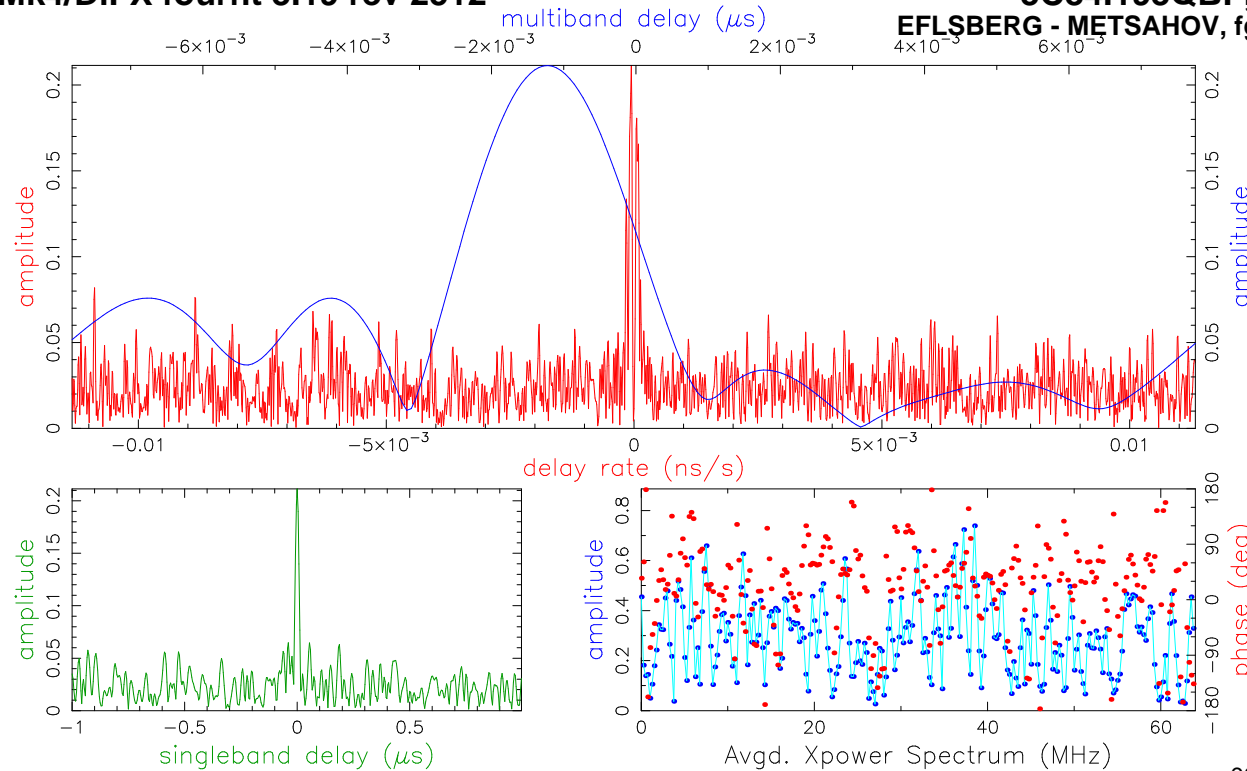
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122505
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	71.2	57.3	66.9	88.0	76.1	77.9	63.0	53.3	Phase	69.3
B	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	Ampl.	0.3
Z	257.1	257.5	256.9	257.1	257.7	256.2	257.6	257.3	Sbd box	257.2
B:Z	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B:Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.88582639080E+03		Apriori delay (usec)		1.88582586544E+03		Resid mbdelay (usec)		5.25363E-04	+/- 6.7E-05
Sband delay (usec)	1.88582675544E+03		Apriori clock (usec)		1.3142880E+01		Resid sbdelay (usec)		8.90000E-04	+/- 5.3E-04
Phase delay (usec)	1.88582586767E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		2.23371E-06	+/- 2.3E-07
Delay rate (us/s)	-1.01152183110E-01		Apriori rate (us/s)		-1.01152130716E-01		Resid rate (us/s)		-5.23943E-08	+/- 1.1E-09
Total phase (deg)	86.8		Apriori accel (us/s/s)		-1.71649820579E-05		Resid phase (deg)		69.3	+/- 7.1

ph/seg (deg) 63.8 16.9 Search (2048X32) 0.313 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.2 29.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.4 10.0 Inc. seg. avg. 0.492 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.1 17.4 Inc. frq. avg. 0.313 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 284.8 el 45.4 pa 55.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 754.390 -1839.355 ion window (TEC) 0.00 0.00
 simultaneous interpolator

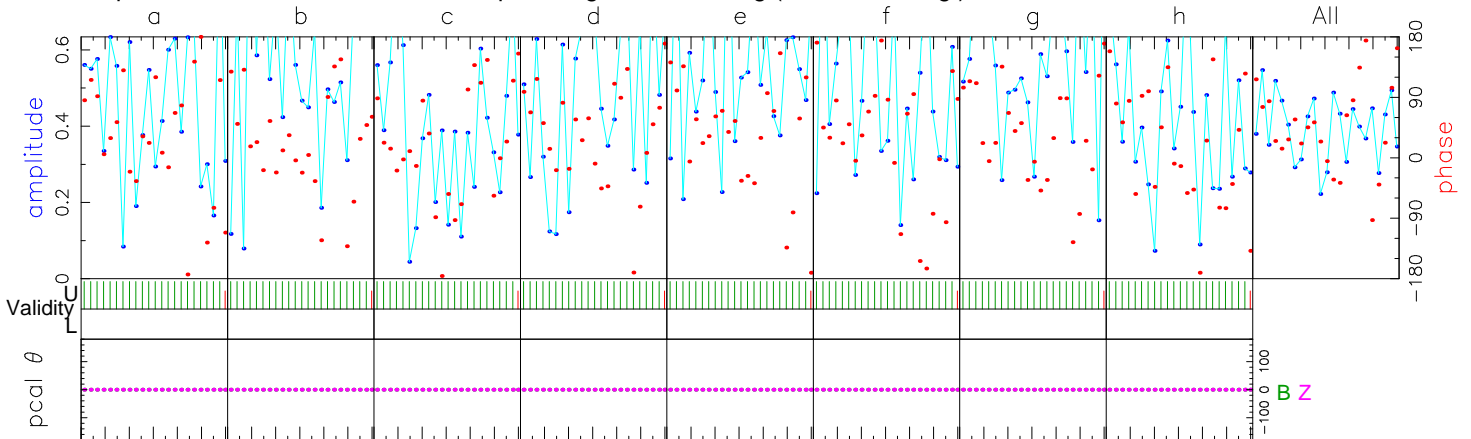


Fringe quality 9

SNR 11.0
Int time 359.266
Amp 0.211
Phase 45.8
PFD 2.8e-19
Delays (us)
SBD -0.000356
MBD -0.001234
Fringe rate (Hz)
-0.004341
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122508
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

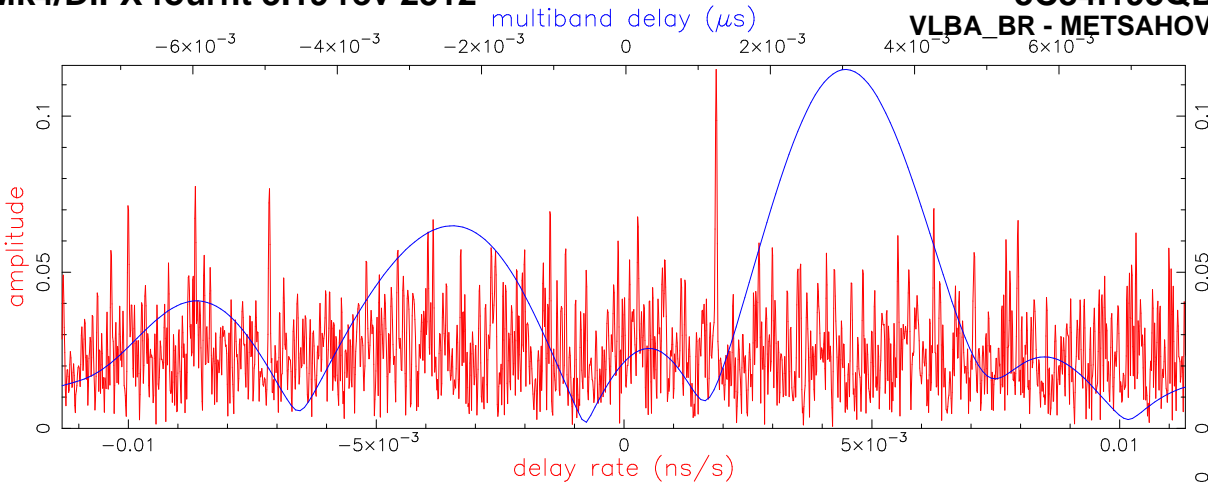


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	1.88582463186E+03		Apriori delay (usec)		1.88582586544E+03		Resid mbdelay (usec)		-1.23357E-03	+/- 9.9E-05
Sband delay (usec)	1.88582550919E+03		Apriori clock (usec)		1.3142880E+01		Resid sbdelay (usec)		-3.56250E-04	+/- 7.9E-04
Phase delay (usec)	1.88582586691E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		1.47669E-06	+/- 3.4E-07
Delay rate (us/s)	-1.01152181111E-01		Apriori rate (us/s)		-1.01152130716E-01		Resid rate (us/s)		-5.03955E-08	+/- 1.6E-09
Total phase (deg)	63.3		Apriori accel (us/s/s)		-1.71649820579E-05		Resid phase (deg)		45.8	+/- 10.5

ph/seg (deg) 63.7 25.1 Amplitude 0.211 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.4 43.8 Search (2048X32) 0.202 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.4 14.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.0 25.8 Inc. seg. avg. 0.362 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.214 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

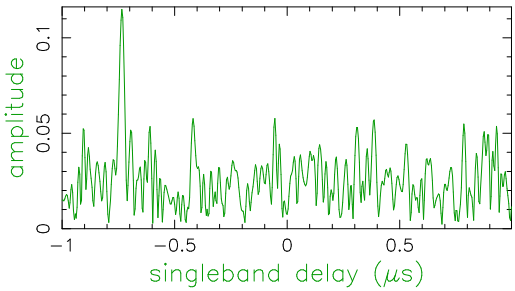
B: az 284.8 el 45.4 pa 55.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 754.390 -1839.355 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/BZ.W.128.193QBF

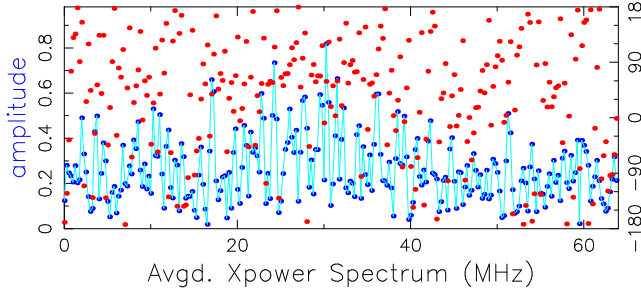


Fringe quality 0

SNR 5.9
 Int time 354.204
 Amp 0.116
 Phase -133.3
 PFD 5.7e-01
 Delays (us)
 SBD -0.734054
 MBD 0.003047
 Fringe rate (Hz)
 0.160295
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

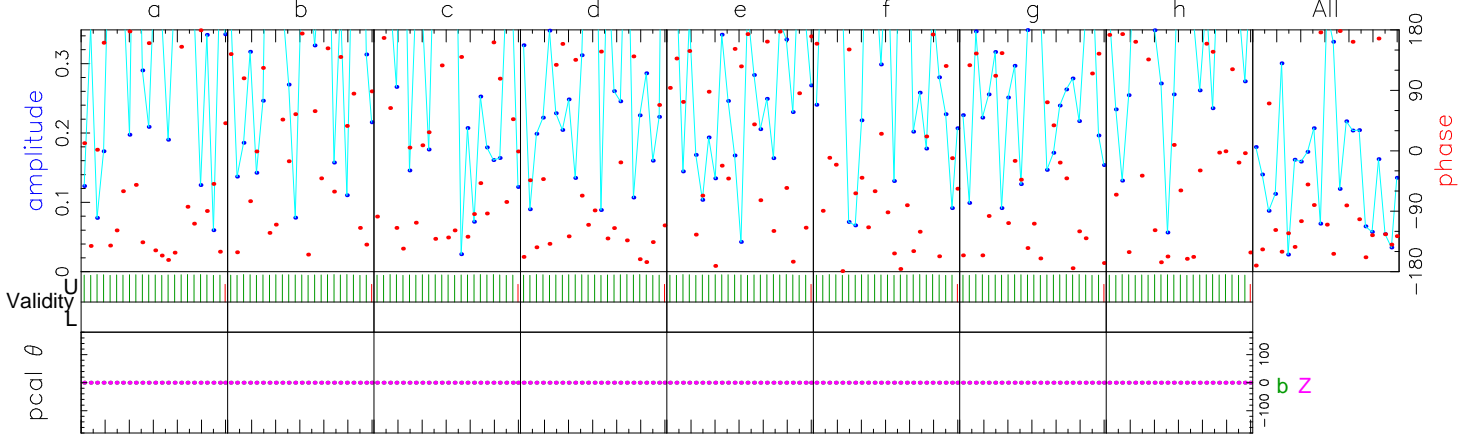


delay rate (ns/s)



Exp. c201d
 Yr:day 16383
 Start 2020:204:118
 Stop 2020:204:118
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122447
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



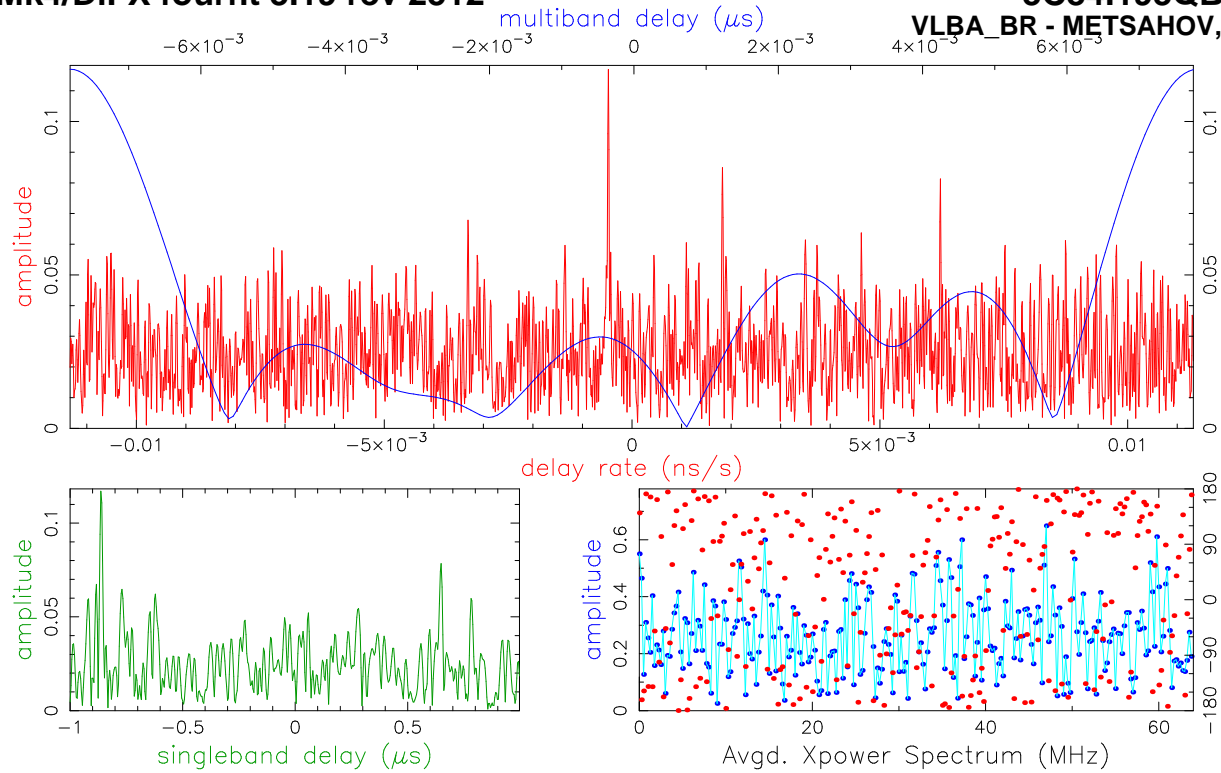
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.6	-164.6	-117.3	-125.2	160.0	-102.1	-148.2	-142.1		-133.3
	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1		0.1
	64.5	135.2	25.5	69.5	389.0	161.4	220.9	84.4		69.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.58853843241E+03	Apriori delay (usec)	2.58926976060E+03	Resid mbdelay (usec)	3.04682E-03	+/-	1.8E-04
Sband delay (usec)	2.58853570635E+03	Apriori clock (usec)	-1.2968005E+00	Resid sbdelay (usec)	-7.34054E-01	+/-	1.5E-03
Phase delay (usec)	2.58926975630E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-4.29911E-06	+/-	6.2E-07
Delay rate (us/s)	1.25006962878E+00	Apriori rate (us/s)	1.25006776791E+00	Resid rate (us/s)	1.86087E-06	+/-	3.0E-09
Total phase (deg)	-69.3	Apriori accel (us/s/s)	-2.30259562128E-05	Resid phase (deg)	-133.3	+/-	19.4

ph/seg (deg)	RMS 49.7	Theor. 46.4	Amplitude Search (2048X32)	0.116 +/- 0.020	0.112	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.6	81.1	Interp.	0.000	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	34.2	27.4	Inc. seg. avg.	0.118	0.118	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	46.9	47.8	Inc. frq. avg.	0.114	0.114	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.31.193QBF

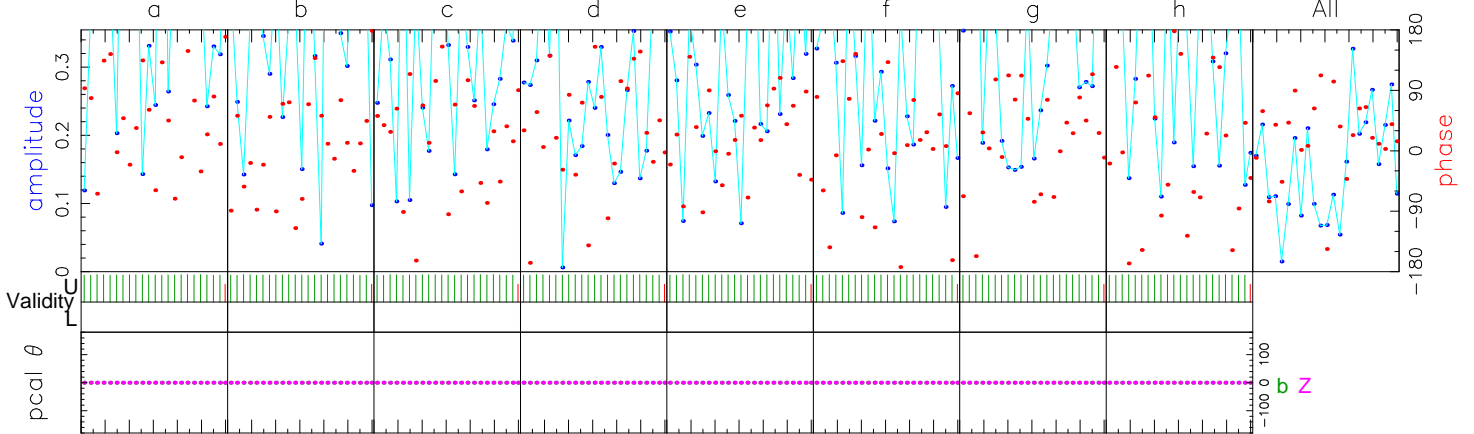


Fringe quality 0

SNR 6.1
Int time 354.205
Amp 0.118
Phase 31.2
PFD 2.7e-01
Delays (us)
SBD -0.862168
MBD -0.007779
Fringe rate (Hz)
-0.041190
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122450
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

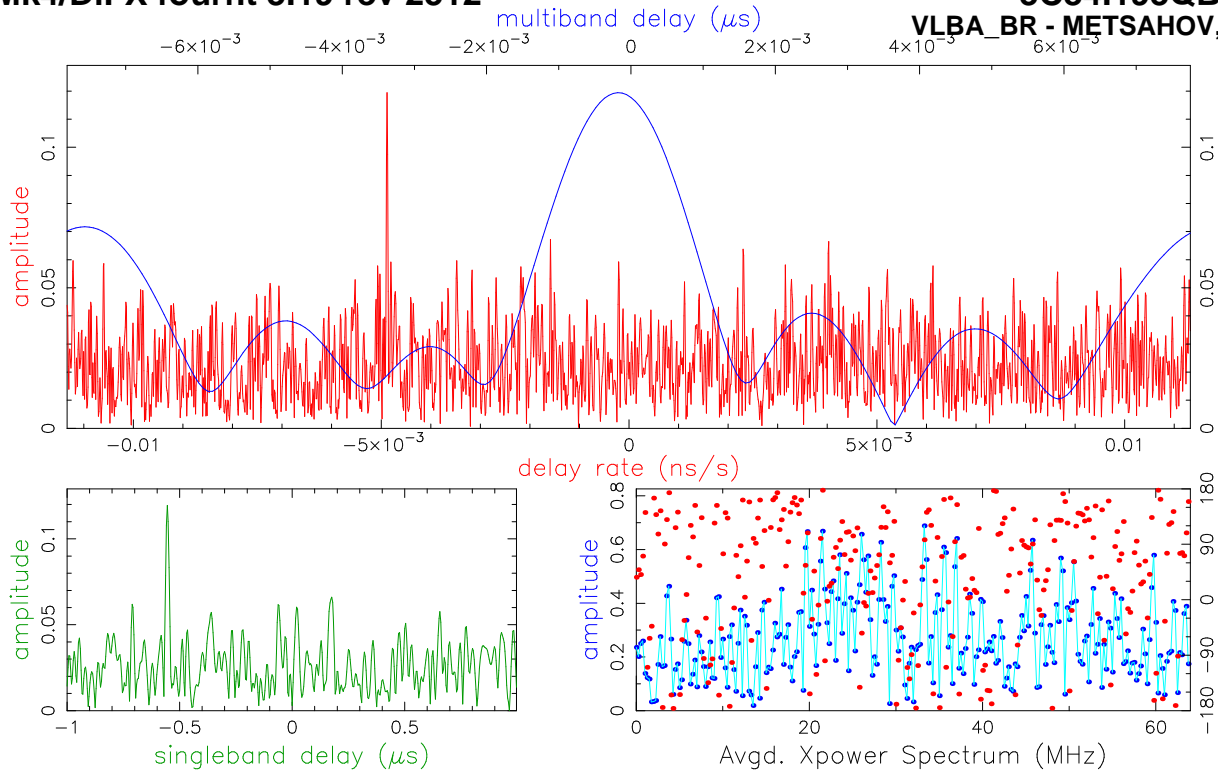


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.58840260691E+03		Apriori delay (usec)		2.58926976060E+03		Resid mbdelay (usec)		-7.77869E-03	+/- 1.8E-04
Sband delay (usec)	2.58840759235E+03		Apriori clock (usec)		-1.2968005E+00		Resid sbdelay (usec)		-8.62168E-01	+/- 1.4E-03
Phase delay (usec)	2.58926976160E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		1.00694E-06	+/- 6.1E-07
Delay rate (us/s)	1.25006728974E+00		Apriori rate (us/s)		1.25006776791E+00		Resid rate (us/s)		-4.78174E-07	+/- 2.9E-09
Total phase (deg)	95.2		Apriori accel (us/s/s)		-2.30259562128E-05		Resid phase (deg)		31.2	+/- 18.8

	RMS	Theor.	Amplitude	0.118 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	58.8	45.2	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	73.1	78.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	44.1	26.6	Inc. seg. avg.	0.118	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.6	46.5	Inc. frq. avg.	0.112	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.48.193QBF

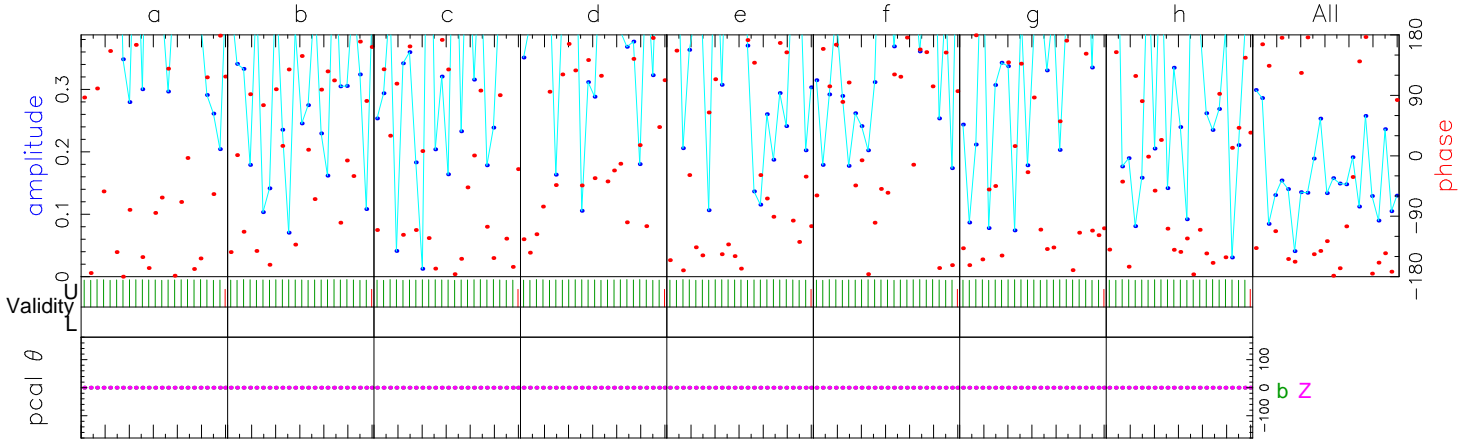


Fringe quality 0

SNR 6.1
 Int time 354.204
 Amp 0.129
 Phase -162.7
 PFD 1.9e-01
 Delays (us)
 SBD -0.554479
 MBD -0.000173
 Fringe rate (Hz)
 -0.421386
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122454
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



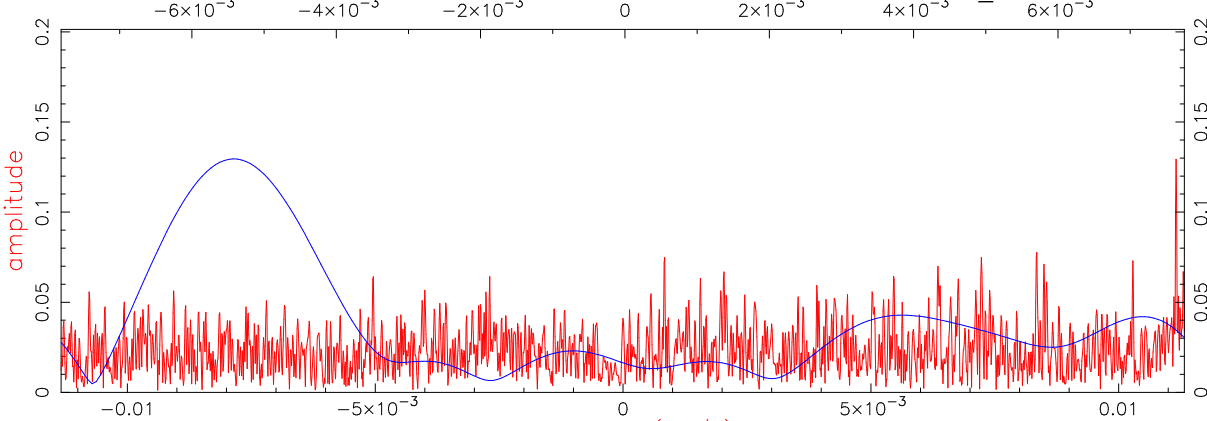
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-163.2	179.0	-149.6	175.6	-152.3	141.4	-152.2	-162.0	Phase	-162.7
	0.2	0.0	0.1	0.0	0.2	0.1	0.2	0.1	Ampl.	0.1
	200.0	406.5	412.2	193.6	115.1	392.8	230.3	63.6	Sbd box	115.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.58872271265E+03		Apriori delay (usec)		2.58926976060E+03		Resid mbdelay (usec)		-1.72948E-04	+/- 1.8E-04
Sband delay (usec)	2.58871528185E+03		Apriori clock (usec)		-1.2968005E+08		Resid sbdelay (usec)		-5.54479E-01	+/- 1.4E-03
Phase delay (usec)	2.58926975535E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		-5.24622E-06	+/- 6.0E-07
Delay rate (us/s)	1.25006287603E+00		Apriori rate (us/s)		1.25006776791E+00		Resid rate (us/s)		-4.89187E-06	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.30259562128E-05		Resid phase (deg)		-162.7	+/- 18.6

	RMS	Theor.	Amplitude	0.129 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.2	44.7	Search (2048X32)	0.115	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.4	78.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	26.8	26.4	Inc. seg. avg.	0.133	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	57.4	46.0	Inc. frq. avg.	0.124	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

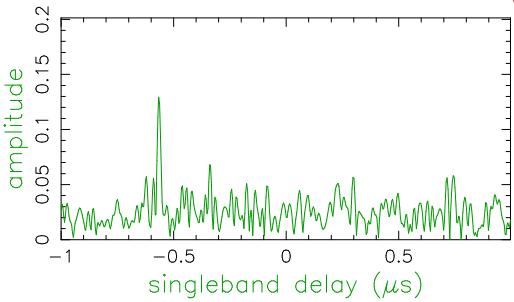
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.66.193QBF

multiband delay (μs)

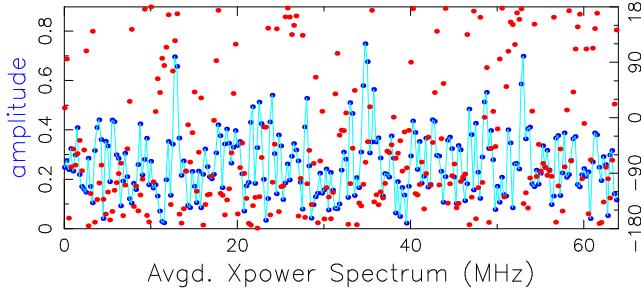


Fringe quality 0

SNR 6.7
 Int time 354.205
 Amp 0.201
 Phase -100.4
 PFD 6.4e-03
 Delays (us)
 SBD -0.565516
 MBD -0.005362
 Fringe rate (Hz)
 0.962672
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

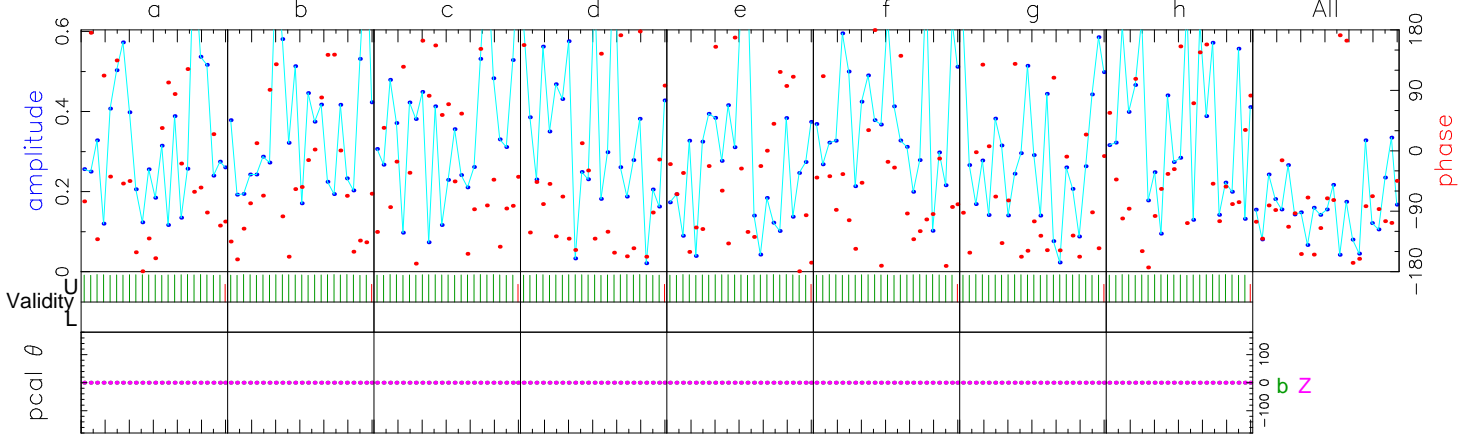


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122457
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



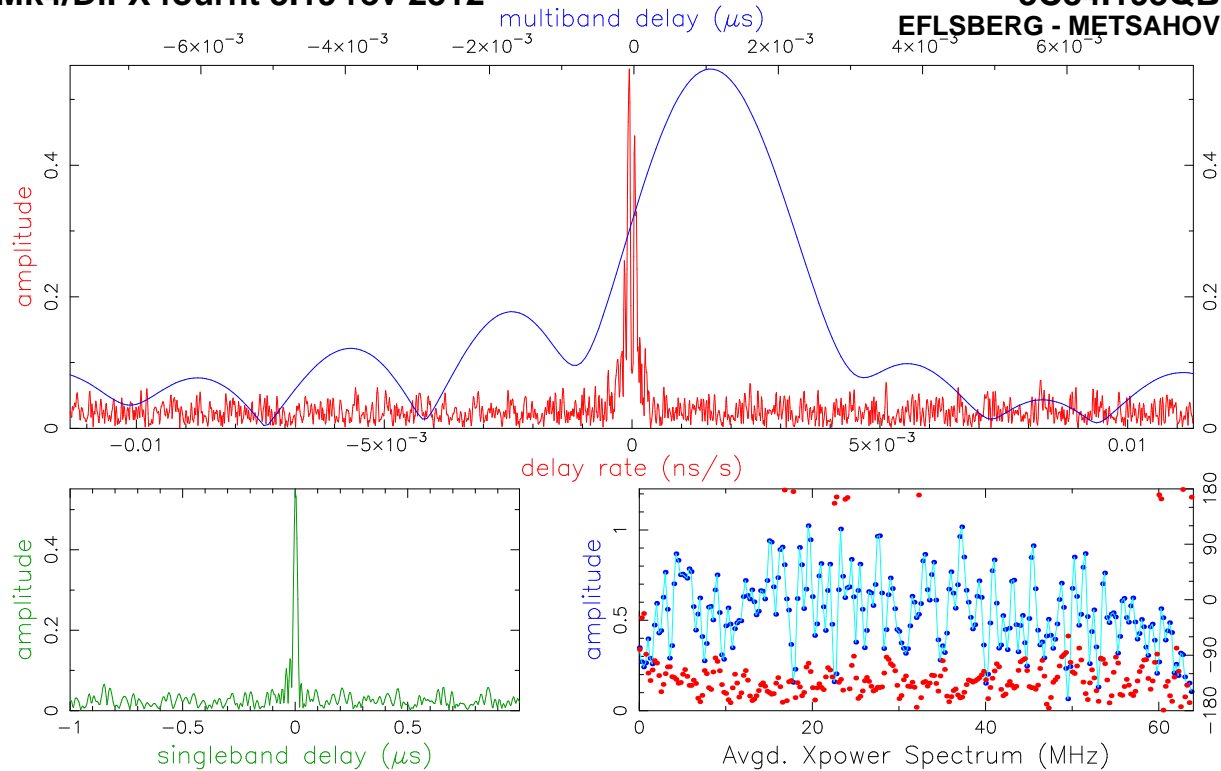
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.58870189855E+03	Apriori delay (usec)	2.58926976060E+03	Resid mbdelay (usec)	-5.36204E-03	+/-	1.6E-04
Sband delay (usec)	2.58870424510E+03	Apriori clock (usec)	-1.2968005E+08	Resid sbdelay (usec)	-5.65516E-01	+/-	1.3E-03
Phase delay (usec)	2.58926975736E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-3.23805E-06	+/-	5.5E-07
Delay rate (us/s)	1.25007894358E+00	Apriori rate (us/s)	1.25006776791E+00	Resid rate (us/s)	1.11757E-05	+/-	2.7E-09
Total phase (deg)	-36.4	Apriori accel (us/s/s)	-2.30259562128E-05	Resid phase (deg)	-100.4	+/-	17.1

ph/seg (deg)	45.2	RMS	41.1	Theor.	41.1	Amplitude	0.201 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	65.5	45.2	41.1	Search (2048X32)	0.123	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	20.5	30.2	42.3	Inc. seg. avg.	0.201	Inc. frq. avg.	0.195	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	30.2	42.3		Inc. frq. avg.	0.195			Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
								Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

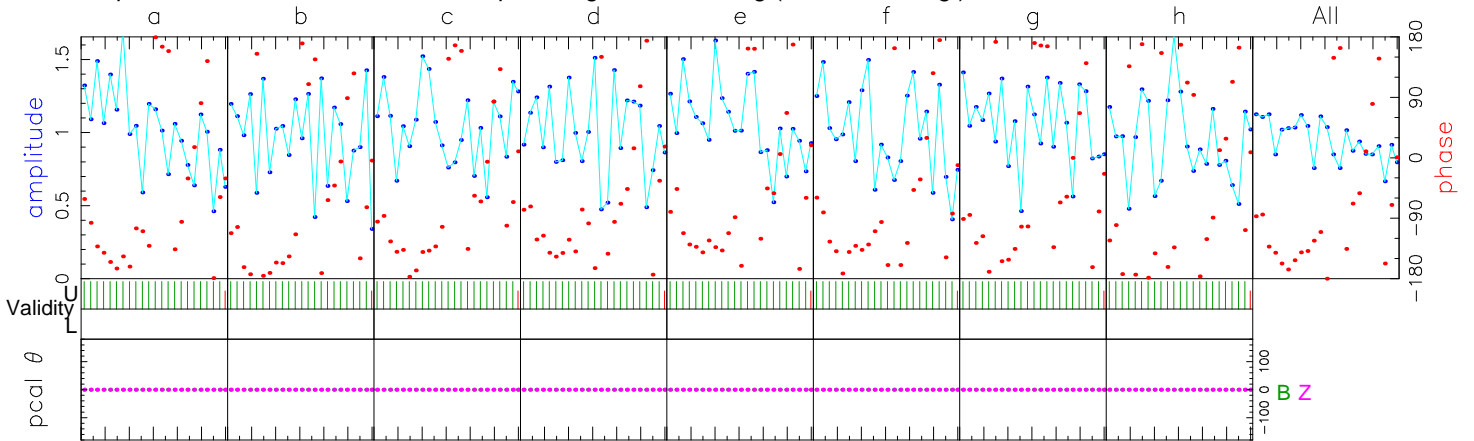
b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -957.558 -2358.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.79.193QBF



Fringe quality 6
SNR 28.6
Int time 359.266
Amp 0.552
Phase -133.1
PFD 0.0e+00
Delays (us)
SBD 0.001337
MBD 0.001097
Fringe rate (Hz)
-0.004512
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122458
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

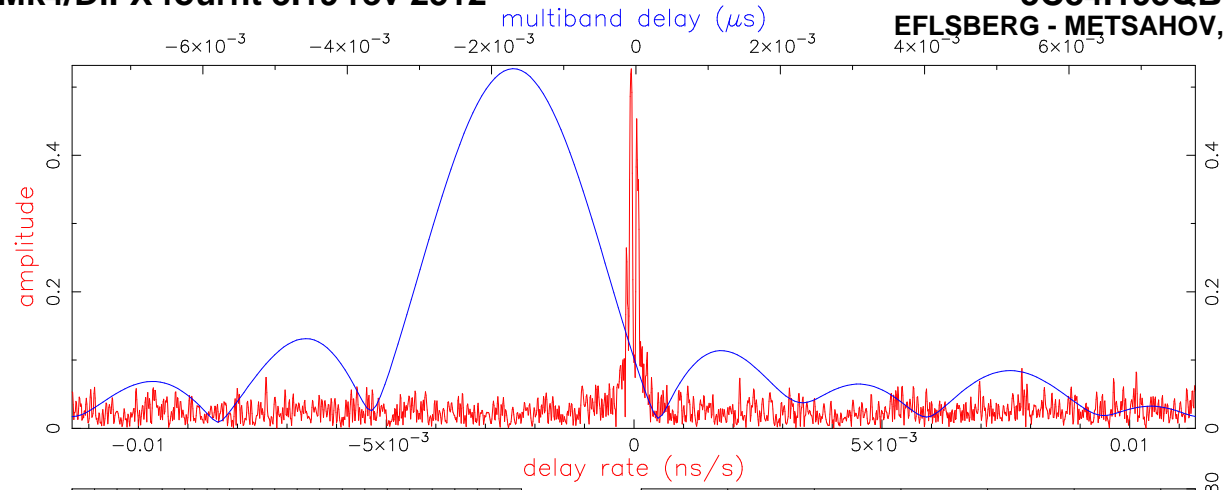


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-137.2	-150.8	-129.9	-110.7	-123.6	-120.8	-135.0	-164.2	Phase	-133.1
	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	Ampl.	0.6
	257.7	257.3	257.8	257.9	257.5	257.1	256.9	255.4	Sbd box	257.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 1.88582696205E+03 Apriori delay (usec) 1.88582586544E+03 Resid mbdelay (usec) 1.09661E-03 +/- 3.8E-05
Sband delay (usec) 1.88582720244E+03 Apriori clock (usec) 1.3142880E+01 Resid sbdelay (usec) 1.33700E-03 +/- 3.0E-04
Phase delay (usec) 1.88582586115E+03 Apriori clockrate (us/s) -2.1600000E-07 Resid phdelay (usec) -4.29140E-06 +/- 1.3E-07
Delay rate (us/s) -1.01152183092E-01 Apriori rate (us/s) -1.01152130716E-01 Resid rate (us/s) -5.23766E-08 +/- 6.2E-10
Total phase (deg) -115.5 Apriori accel (us/s/s) -1.71649820579E-05 Resid phase (deg) -133.1 +/- 4.0

RMS Theor. Amplitude 0.552 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 64.7 9.6 Search (2048X32) 0.541 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 76.0 16.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 18.5 5.7 Inc. seg. avg. 0.937 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 7.9 9.9 Inc. frq. avg. 0.564 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

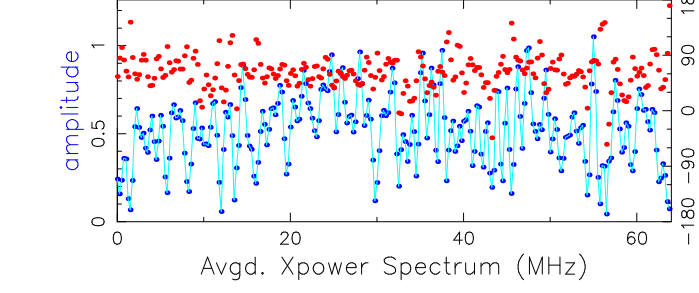
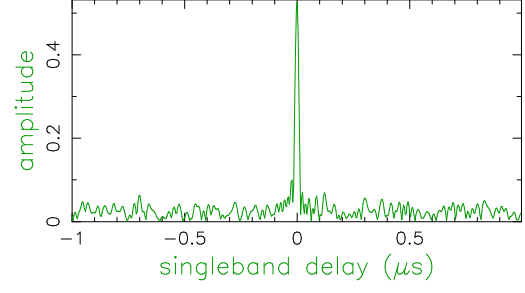
B: az 284.8 el 45.4 pa 55.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 754.390 -1839.355 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/BZ.W.82.193QBF



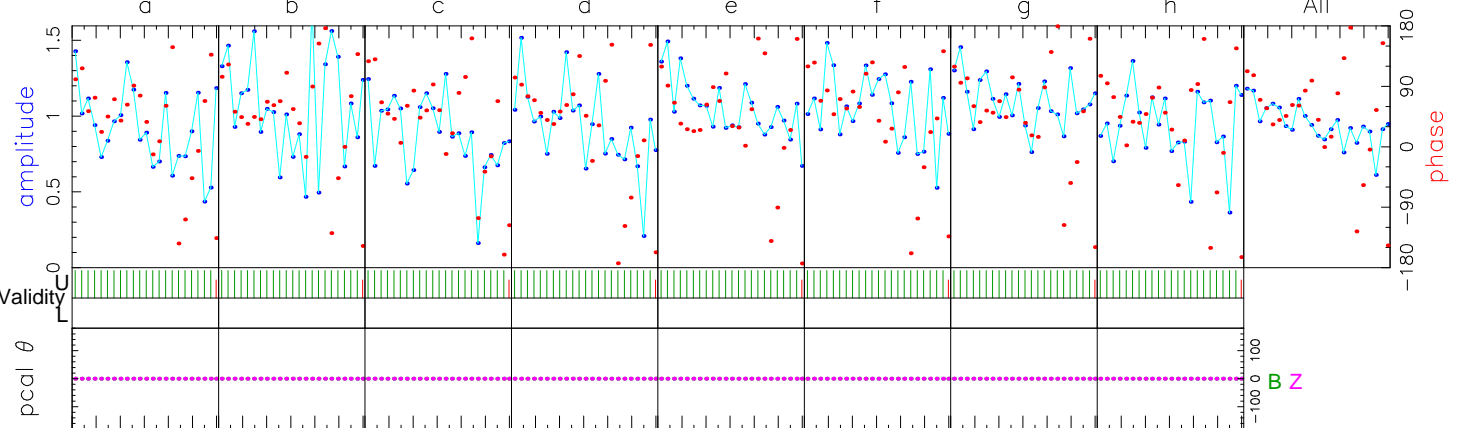
Fringe quality 7

SNR 27.6
Int time 359.266
Amp 0.532
Phase 67.9
PFD 0.0e+00
Delays (us)
SBD -0.001264
MBD -0.001728
Fringe rate (Hz)
-0.004725
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122502
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

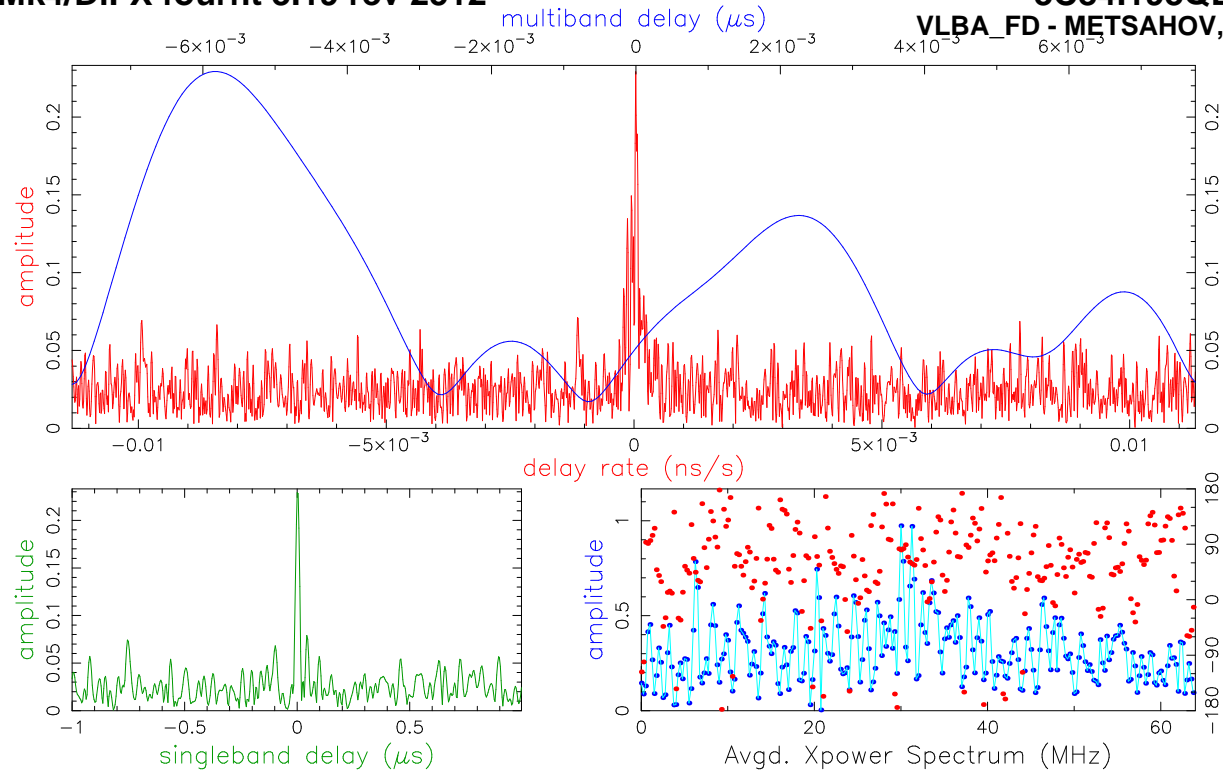


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



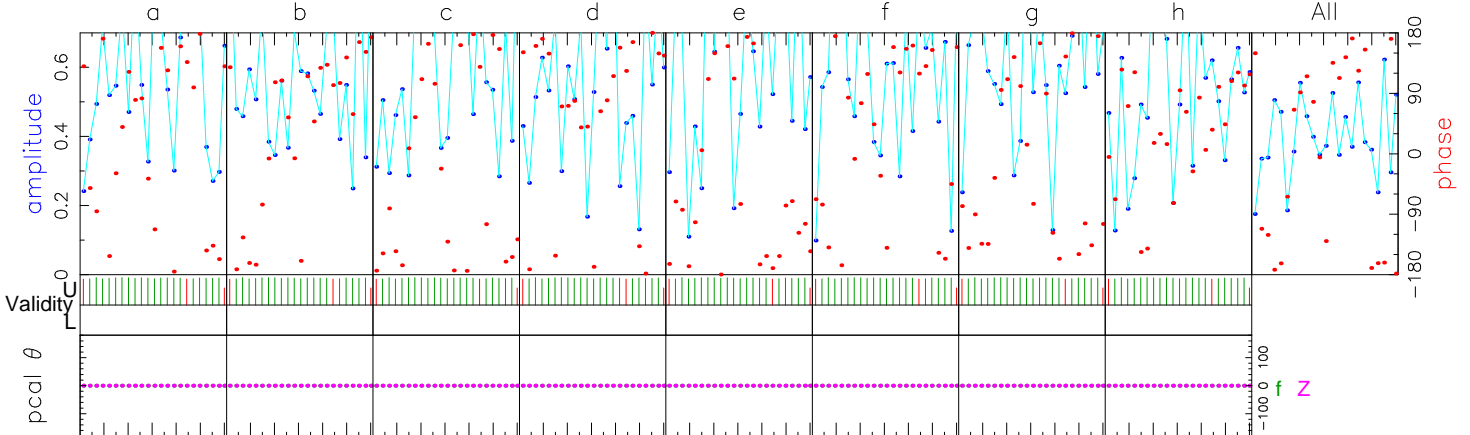
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	1.88582413714E+03		Apriori delay (usec)		1.88582586544E+03		Resid mbdelay (usec)		-1.72829E-03	+/- 3.9E-05
Sband delay (usec)	1.88582460119E+03		Apriori clock (usec)		1.3142880E+01		Resid sbdelay (usec)		-1.26425E-03	+/- 3.1E-04
Phase delay (usec)	1.88582586763E+03		Apriori clockrate (us/s)		-2.160000E-07		Resid phdelay (usec)		2.18835E-06	+/- 1.3E-07
Delay rate (us/s)	-1.01152185563E-01		Apriori rate (us/s)		-1.01152130716E-01		Resid rate (us/s)		-5.48473E-08	+/- 6.5E-10
Total phase (deg)	85.4		Apriori accel (us/s/s)		-1.71649820579E-05		Resid phase (deg)		67.9	+/- 4.2

ph/seg (deg) 67.0 10.0 Search (2048X32) 0.516 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 81.9 17.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 7.6 5.9 Inc. seg. avg. 0.934 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.3 10.3 Inc. frq. avg. 0.527 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 284.8 el 45.4 pa 55.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 754.390 -1839.355 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/BZ.W.94.193QBF



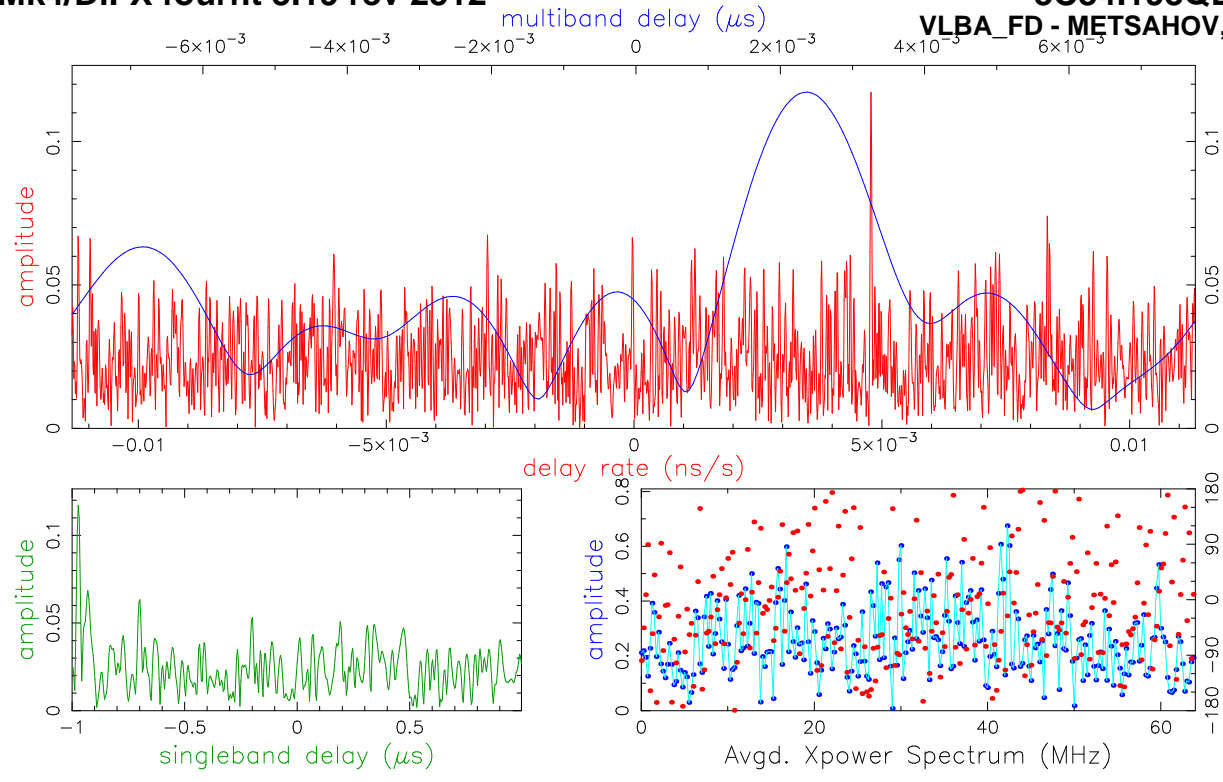
Fringe quality 9
 SNR 11.9
 Int time 349.835
 Amp 0.233
 Phase 159.2
 PFD 4.5e-24
 Delays (us)
 SBD 0.001863
 MBD -0.005764
 Fringe rate (Hz) 0.002653
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122503
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



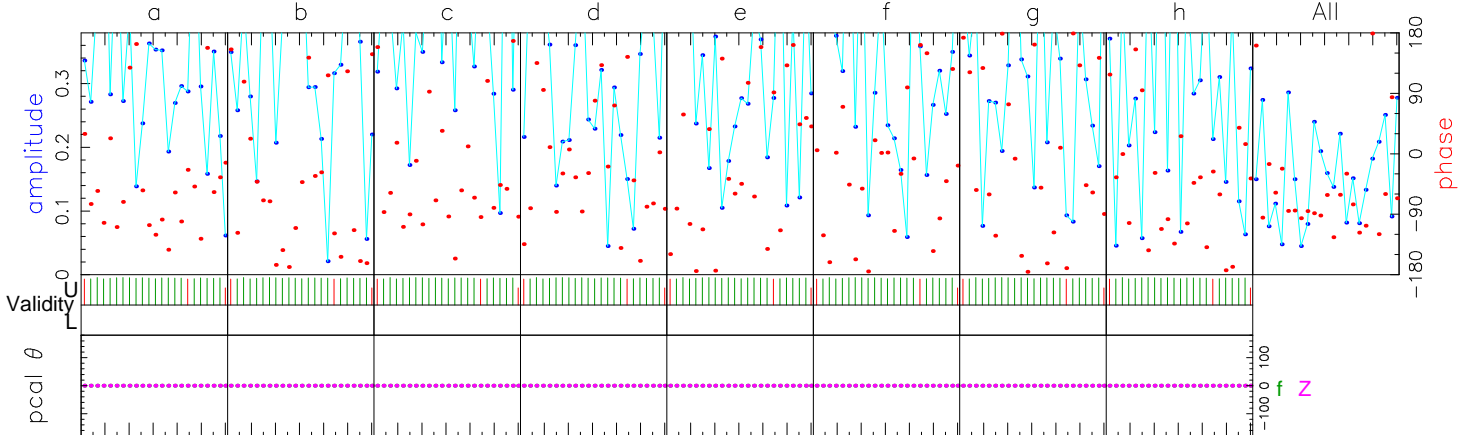
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.77796261011E+03			3.77796837447E+03				Resid mbdelay (usec)	-5.76436E-03 +/- 9.1E-05
Sband delay (usec)		3.77797023797E+03			4.0357318E+00				Resid sbdelay (usec)	1.86350E-03 +/- 7.2E-04
Phase delay (usec)		3.77796837960E+03			9.3000003E-08				Resid phdelay (usec)	5.13237E-06 +/- 3.1E-07
Delay rate (us/s)		1.27901035463E+00			1.27901032383E+00				Resid rate (us/s)	3.08003E-08 +/- 1.5E-09
Total phase (deg)			78.8		-4.69159377856E-05				Resid phase (deg)	159.2 +/- 9.6

ph/seg (deg) 66.1 23.0 Search (2048X32) 0.228 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.6 40.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 50.2 13.6 Inc. seg. avg. 0.367 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.7 23.7 Inc. frq. avg. 0.295 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.103.193QBF simultaneous interpolator



Fringe quality 0
 SNR 6.0
 Int time 349.833
 Amp 0.127
 Phase -87.4
 PFD 3.8e-01
 Delays (us)
 SBD -0.971987
 MBD 0.002398
 Fringe rate (Hz)
 0.412343
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122508
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

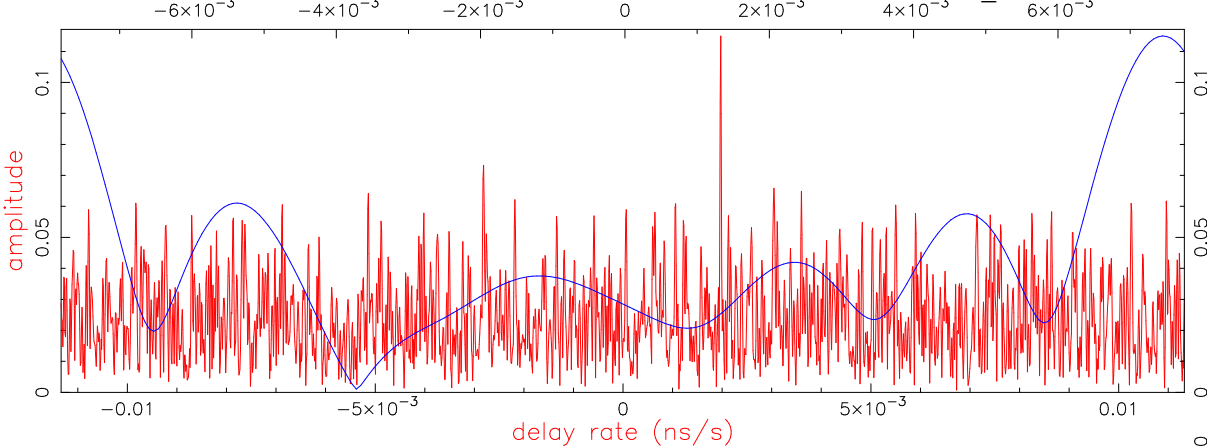
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-81.3	-127.5	-68.8	-63.8	-129.1	-38.0	-107.2	-105.4	Phase	-87.4
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	7.7	44.0	7.6	221.8	119.5	78.3	432.7	99.3	Sbd box	8.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.77700202276E+03		Apriori delay (usec)		3.77796837447E+03		Resid mbdelay (usec)		2.39829E-03	+/- 1.8E-04
Sband delay (usec)	3.77699368697E+03		Apriori clock (usec)		4.0357318E+00		Resid sbdelay (usec)		-9.71987E-01	+/- 1.4E-03
Phase delay (usec)	3.77796837165E+03		Apriori clockrate (us/s)		9.3000003E-08		Resid phdelay (usec)		-2.81827E-06	+/- 6.2E-07
Delay rate (us/s)	1.27901511072E+00		Apriori rate (us/s)		1.27901032383E+00		Resid rate (us/s)		4.78689E-06	+/- 3.0E-09
Total phase (deg)	192.3		Apriori accel (us/s/s)		-4.69159377856E-05		Resid phase (deg)		-87.4	+/- 19.1

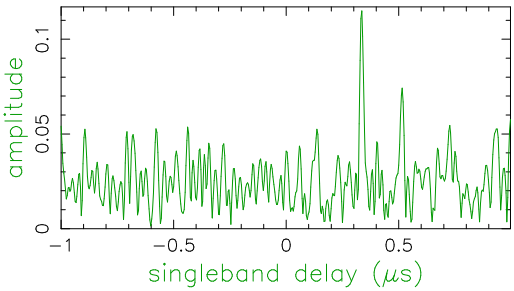
ph/seg (deg) 56.0 45.7 Amplitude 0.127 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.2 79.8 Search (2048X32) 0.114 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.2 27.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.5 47.1 Inc. seg. avg. 0.127 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.124.193QBF simultaneous interpolator

multiband delay (μ s)

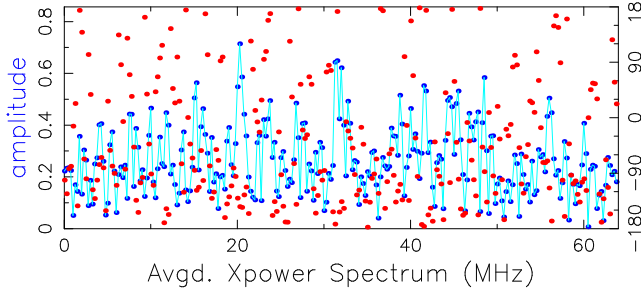


Fringe quality 0

SNR 5.9
 Int time 349.835
 Amp 0.117
 Phase 58.5
 PFD 5.7e-01
 Delays (us)
 SBD 0.334858
 MBD 0.007430
 Fringe rate (Hz)
 0.169791
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

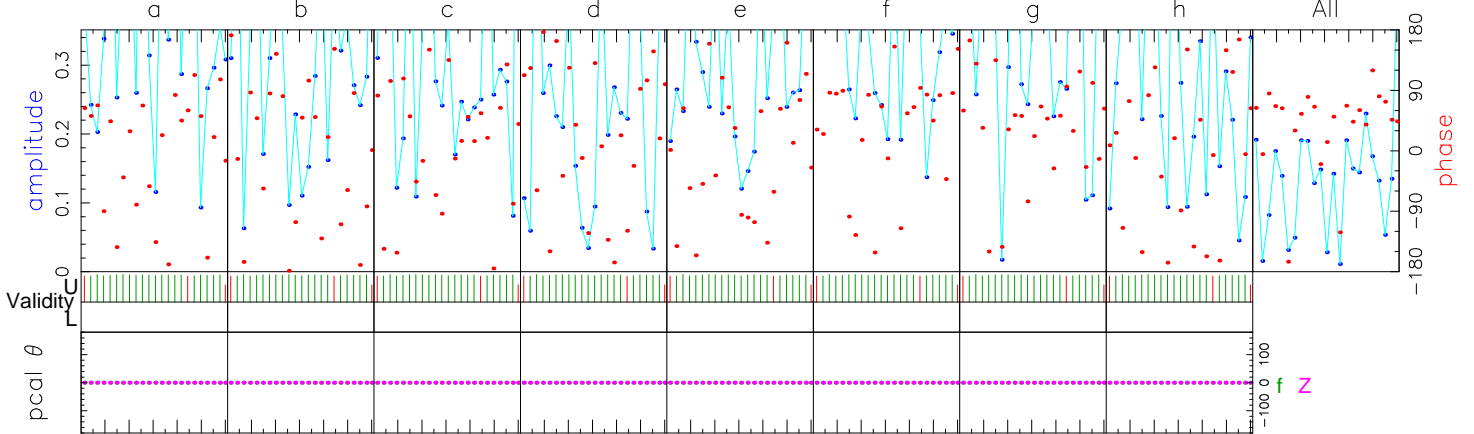


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122511
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



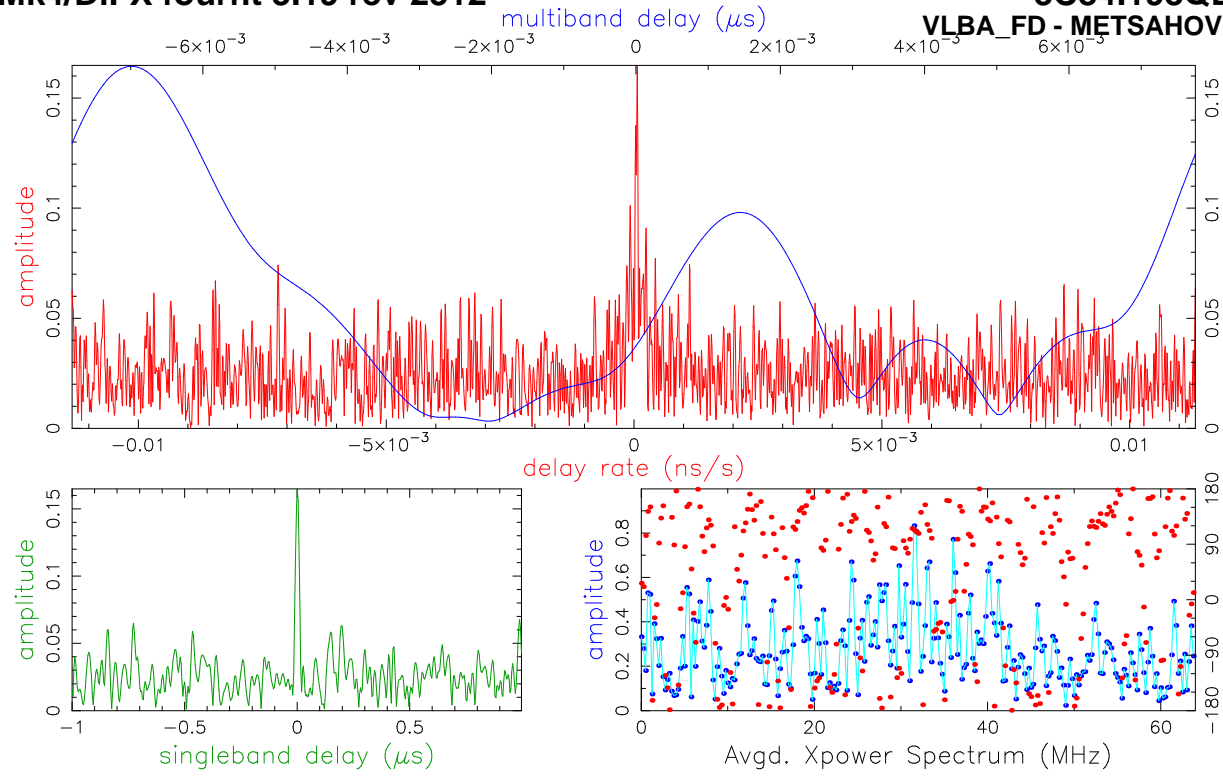
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	3.77830392952E+03	Apriori delay (usec)	3.77796837447E+03	Resid mbdelay (usec)	7.43005E-03	+/-	1.8E-04
Sband delay (usec)	3.77830323272E+03	Apriori clock (usec)	4.0357318E+00	Resid sbdelay (usec)	3.34858E-01	+/-	1.5E-03
Phase delay (usec)	3.77796837636E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	1.88673E-06	+/-	6.2E-07
Delay rate (us/s)	1.27901229493E+00	Apriori rate (us/s)	1.27901032383E+00	Resid rate (us/s)	1.97111E-06	+/-	3.0E-09
Total phase (deg)	338.2	Apriori accel (us/s/s)	-4.69159377856E-05	Resid phase (deg)	58.5	+/-	19.4

ph/seg (deg)	56.2	RMS	46.5	Theor.	0.117 +/- 0.020	Amplitude	0.112	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	69.2	Search (2048X32)	0.112	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	0.112	Bits/sample: 2x2	SampCntNorm: enabled	sb window (us)	-1.000 1.000	
ph/frq (deg)	22.7	Inc. seg. avg.	0.100	Inc. frq. avg.	0.108	Sample rate(MISamp/s): 128	0.100	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	mb window (us)	-0.008 0.008
amp/frq (%)	62.3	Inc. frq. avg.	0.108			Data rate(Mb/s): 2048	0.108			ion window (TEC)	0.00 0.00	

f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.143.193QBF

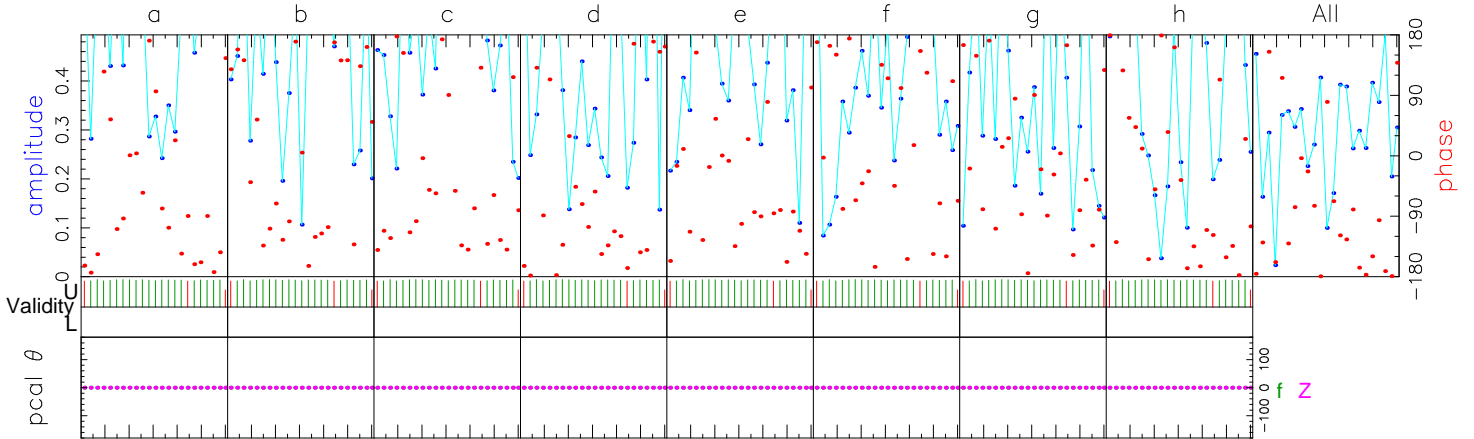


Fringe quality 9

SNR 8.4
 Int time 349.833
 Amp 0.165
 Phase -142.5
 PFD 1.2e-08
 Delays (us)
 SBD 0.000705
 MBD -0.006980
 Fringe rate (Hz) 0.005787
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122459
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



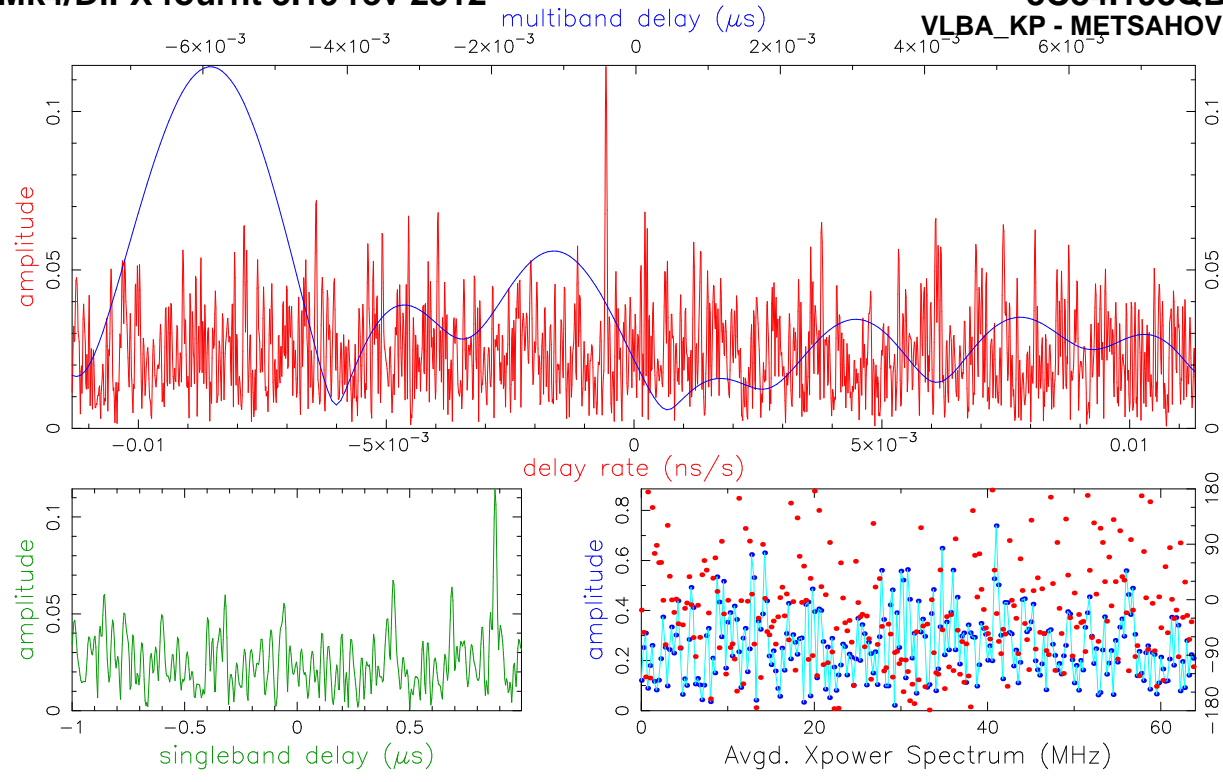
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-133.6	-168.3	-123.6	-153.8	-87.6	-179.7	-52.6	-168.0	Phase	-142.5
	0.2	0.3	0.3	0.3	0.1	0.1	0.1	0.1	Ampl.	0.2
	257.0	256.8	257.6	256.2	242.0	93.8	98.2	377.5	Sbd box	257.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.77796139497E+03	Apriori delay (usec)	3.77796837447E+03	Resid mbdelay (usec)	-6.97950E-03	+/-	1.3E-04
Sband delay (usec)	3.77796907947E+03	Apriori clock (usec)	4.0357318E+08	Resid sbdelay (usec)	7.05000E-04	+/-	1.0E-03
Phase delay (usec)	3.77796836988E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-4.59509E-06	+/-	4.4E-07
Delay rate (us/s)	1.27901039100E+00	Apriori rate (us/s)	1.27901032383E+00	Resid rate (us/s)	6.71762E-08	+/-	2.1E-09
Total phase (deg)	137.2	Apriori accel (us/s/s)	-4.69159377856E-05	Resid phase (deg)	-142.5	+/-	13.6

ph/seg (deg)	66.3	Theor.	32.6	Amplitude	0.165 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	103.7	Search (2048X32)	0.163	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	48.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	49.3	Inc. seg. avg.	0.254	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.183	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00 0.00

f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.90.193QBF

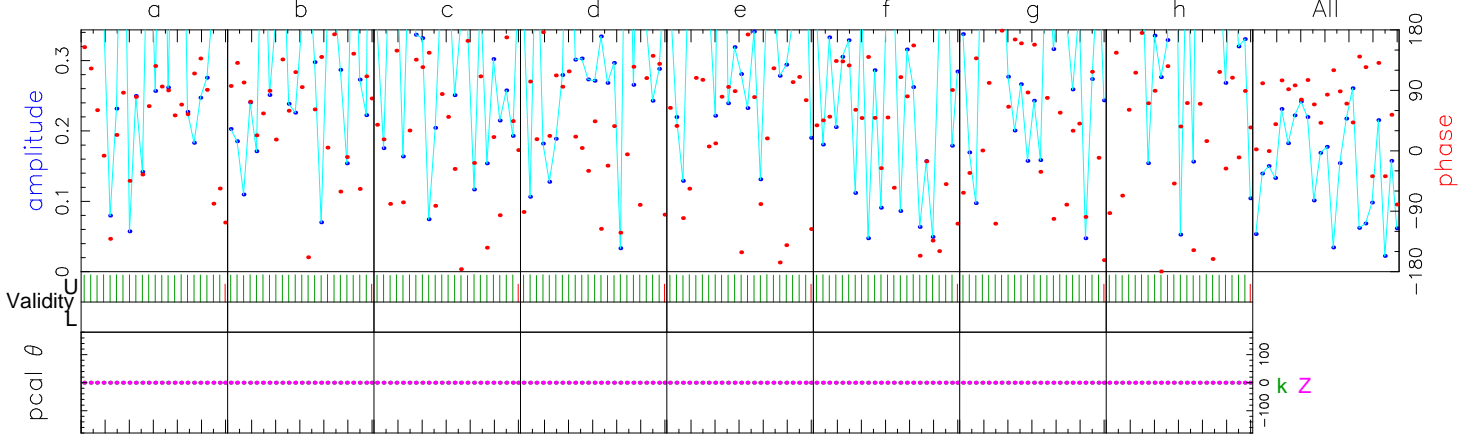


Fringe quality 0

SNR 5.9
 Int time 352.463
 Amp 0.115
 Phase 76.5
 PFD 6.6e-01
 Delays (us)
 SBD 0.879533
 MBD -0.005898
 Fringe rate (Hz)
 -0.048381
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

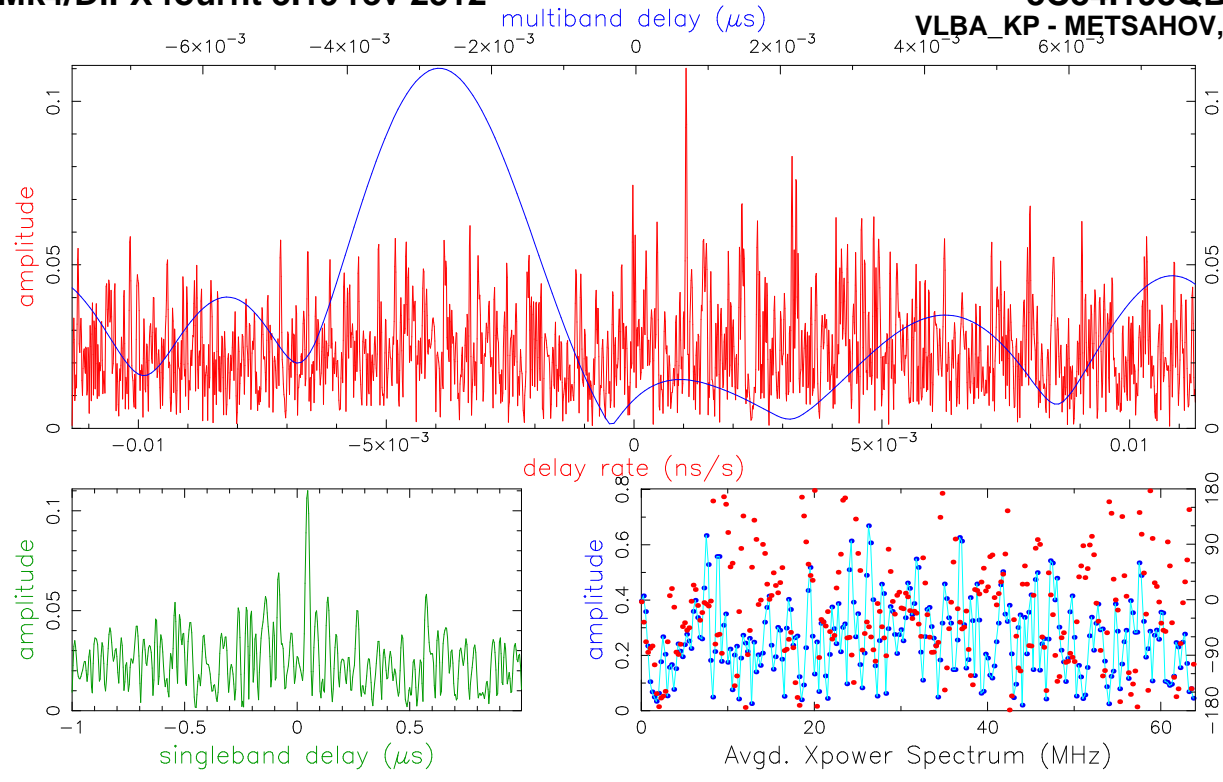
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122505
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



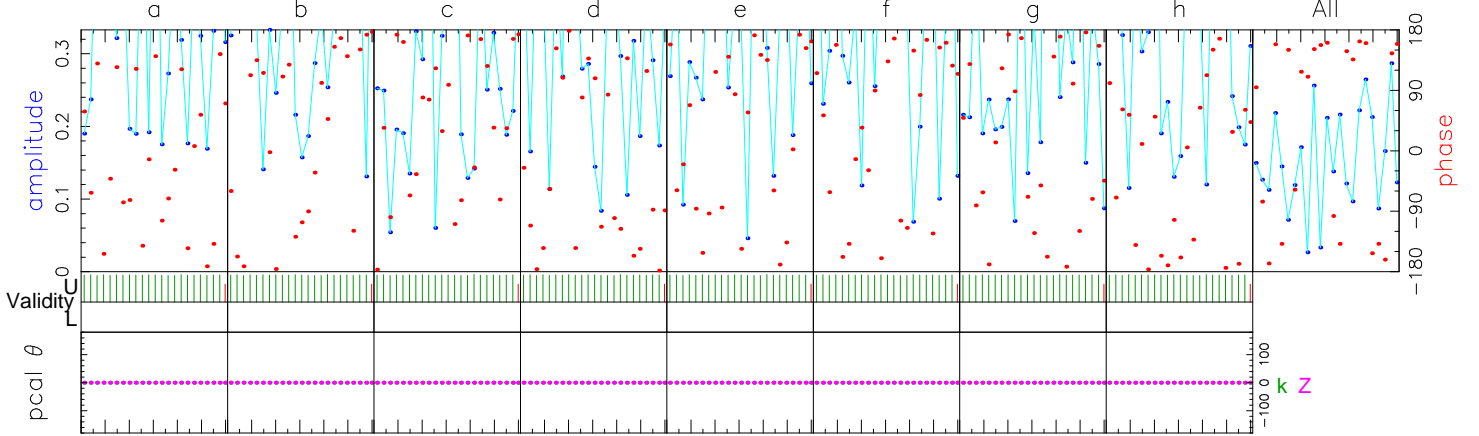
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.56032015849E+03		Apriori delay (usec)		2.55943543192E+03		Resid mbdelay (usec)		-5.89843E-03	+/- 1.8E-04
Sband delay (usec)	2.56031496492E+03		Apriori clock (usec)		-2.2270489E-01		Resid sbdelay (usec)		8.79533E-01	+/- 1.5E-03
Phase delay (usec)	2.55943543439E+03		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		2.46844E-06	+/- 6.3E-07
Delay rate (us/s)	1.35632944924E+00		Apriori rate (us/s)		1.35633001090E+00		Resid rate (us/s)		-5.61660E-07	+/- 3.0E-09
Total phase (deg)	114.5		Apriori accel (us/s/s)		-3.89832518475E-05		Resid phase (deg)		76.5	+/- 19.5

ph/seg (deg) 56.5 46.8 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.2 81.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.6 27.6 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.5 48.1 Inc. frq. avg. 0.107 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 61.4 el 47.0 pa -85.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -10428.147 -4891.754 ion window (TEC) 0.00 0.00
 simultaneous interpolator



Fringe quality 0
 SNR 5.7
 Int time 352.463
 Amp 0.111
 Phase 173.1
 PFD 9.7e-01
 Delays (us)
 SBD 0.045886
 MBD -0.002729
 Fringe rate (Hz)
 0.090714
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122509
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

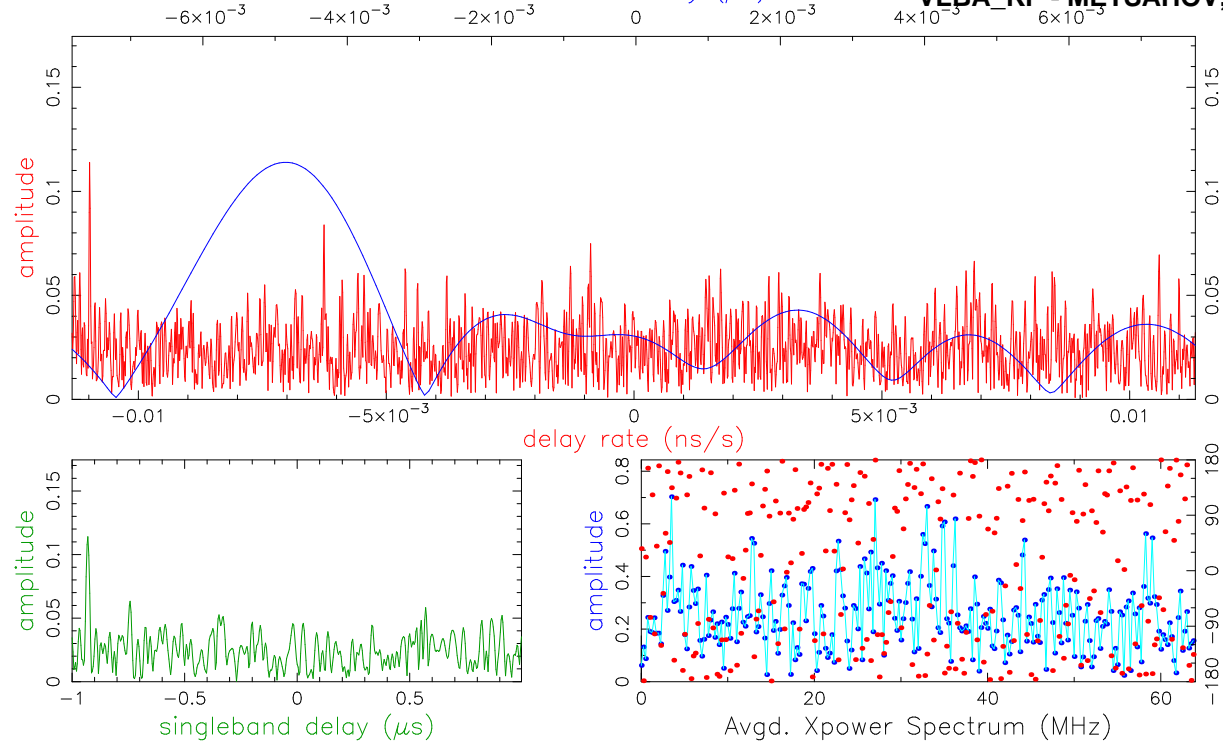


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.4	164.8	113.3	-168.9	-175.8	167.8	-165.3	132.4	Phase	173.1
	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	361.1	267.3	349.1	21.1	254.4	326.4	75.2	207.3	Sbd box	268.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.55947957790E+03		Apriori delay (usec)		2.55943543192E+03		Resid mbdelay (usec)		-2.72901E-03	+/- 1.9E-04
Sband delay (usec)	2.55948131817E+03		Apriori clock (usec)		-2.2270489E-01		Resid sbdelay (usec)		4.58862E-02	+/- 1.5E-03
Phase delay (usec)	2.55943543750E+03		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		5.58075E-06	+/- 6.5E-07
Delay rate (us/s)	1.35633106399E+00		Apriori rate (us/s)		1.35633001090E+00		Resid rate (us/s)		1.05309E-06	+/- 3.1E-09
Total phase (deg)	211.0		Apriori accel (us/s/s)		-3.89832518475E-05		Resid phase (deg)		173.1	+/- 20.2

	RMS	Theor.	Amplitude	0.111 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	53.3	48.4	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	75.5	84.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	32.6	28.5	Inc. seg. avg.	0.115	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s) -0.011 0.011
amp/frq (%)	42.7	49.8	Inc. frq. avg.	0.106	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC) 0.00 0.00

k: az 61.4 el 47.0 pa -85.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -10428.147 -4891.754 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/kZ.W.131.193QBF

multiband delay (μ s)

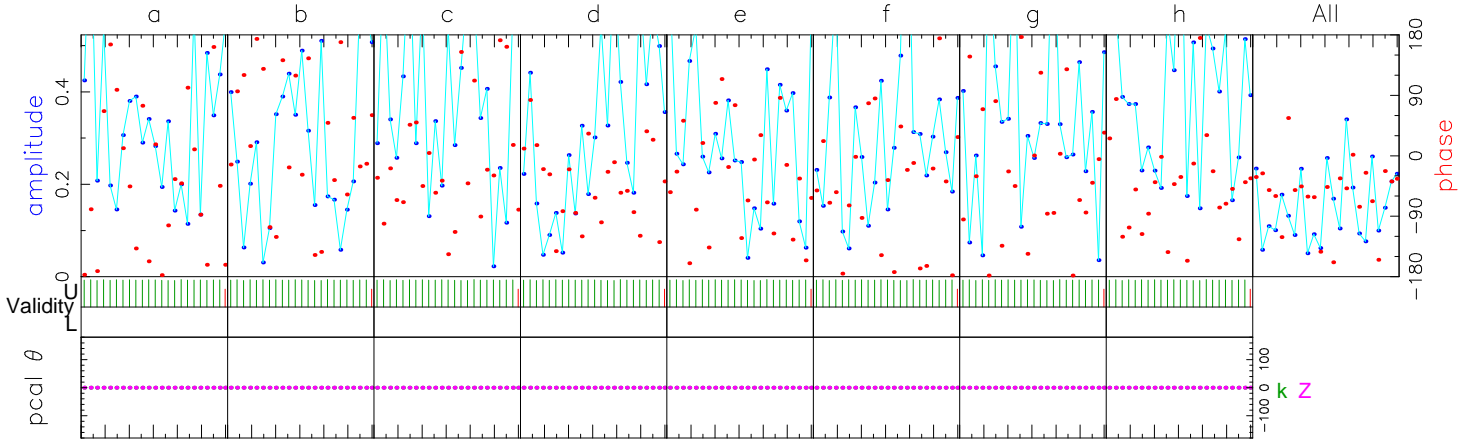


Fringe quality 0

SNR 5.9
 Int time 352.463
 Amp 0.174
 Phase -50.3
 PFD 6.6e-01
 Delays (us)
 SBD -0.930475
 MBD -0.004877
 Fringe rate (Hz)
 -0.947229
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122513
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

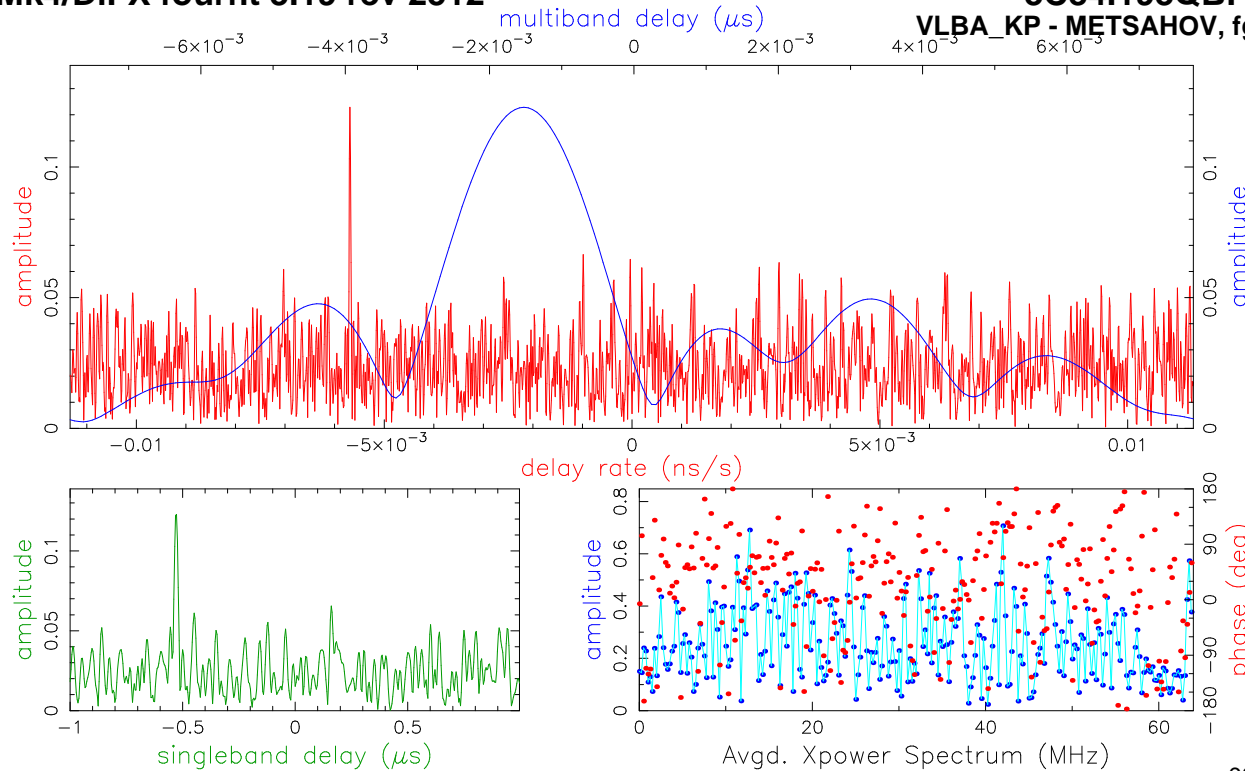


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.1	-0.3	-49.4	-43.8	-49.3	-43.5	-75.4	-45.0	Phase	-50.3
	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	Ampl.	0.2
	410.4	69.6	25.7	490.0	479.7	9.5	28.2	508.6	Sbd box	18.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.55850867961E+03		Apriori delay (usec)		2.55943543192E+03		Resid mbdelay (usec)		-4.87730E-03	+/- 1.8E-04
Sband delay (usec)	2.55850495667E+03		Apriori clock (usec)		-2.2270489E-01		Resid sbdelay (usec)		-9.30475E-01	+/- 1.5E-03
Phase delay (usec)	2.55943543029E+03		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		-1.62332E-06	+/- 6.3E-07
Delay rate (us/s)	1.35631901450E+00		Apriori rate (us/s)		1.35633001090E+00		Resid rate (us/s)		-1.09964E-05	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.89832518475E-05		Resid phase (deg)		-50.3	+/- 19.5

	RMS	Theor.	Amplitude	0.174 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.0	46.8	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	74.7	81.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	33.1	27.6	Inc. seg. avg.	0.174	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	45.7	48.2	Inc. frq. avg.	0.166	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

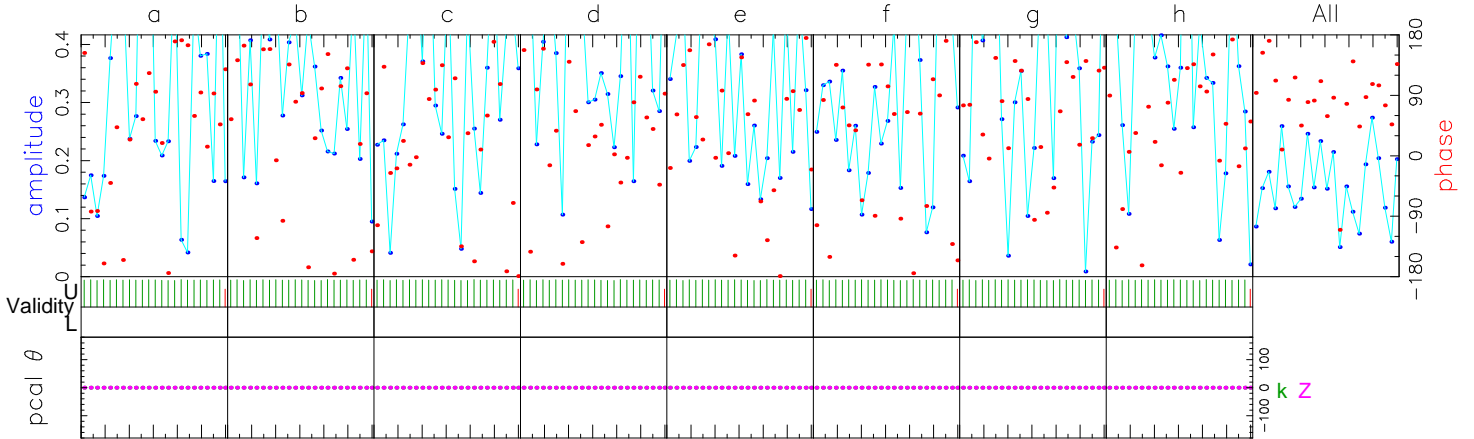
k: az 61.4 el 47.0 pa -85.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -10428.147 -4891.754 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/kZ.W.149.193QBF



Fringe quality 0
 SNR 6.4
 Int time 352.463
 Amp 0.139
 Phase 92.9
 PFD 3.9e-02
 Delays (us)
 SBD -0.529163
 MBD -0.001535
 Fringe rate (Hz)
 -0.491060
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122516
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

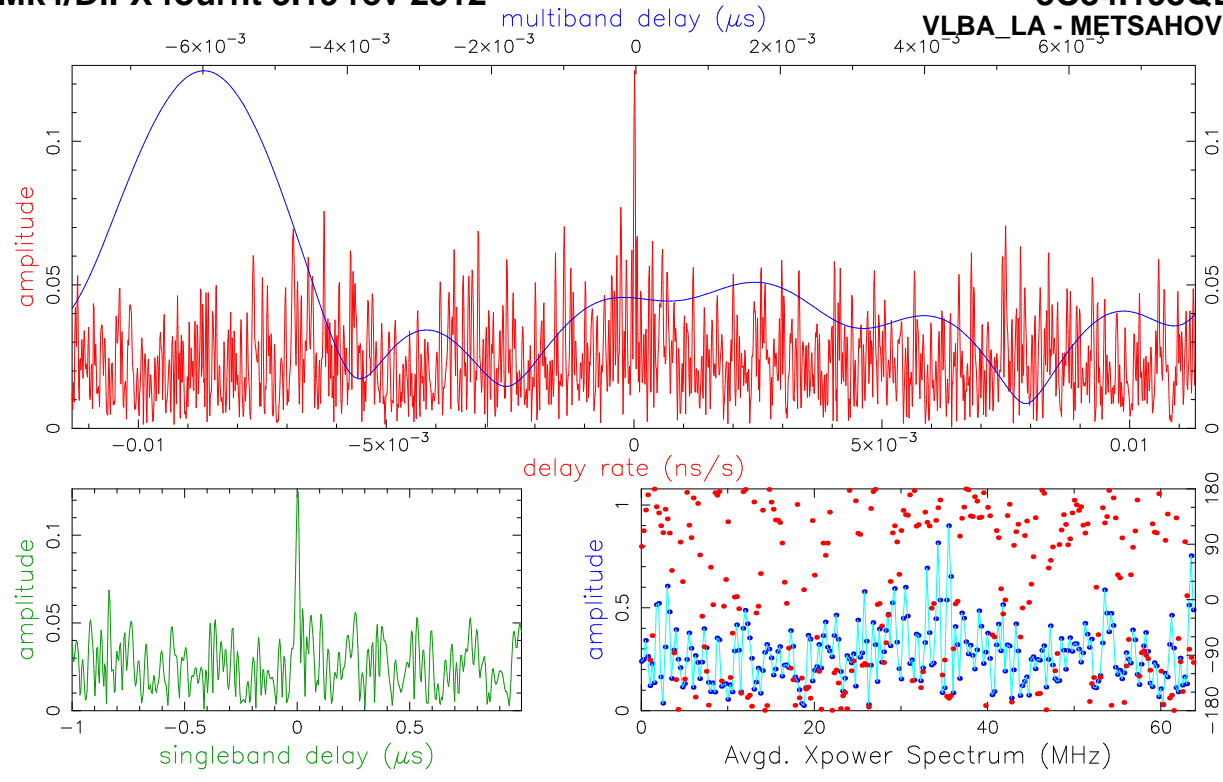


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	82.7	124.4	74.0	65.0	76.0	124.0	93.4	94.1	Phase	92.9
	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	Ampl.	0.1
	22.7	121.3	2.4	53.1	55.0	36.4	382.5	237.2	Sbd box	121.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.55890264701E+03		Apriori delay (usec)		2.55943543192E+03		Resid mbdelay (usec)		-1.53490E-03	+/- 1.7E-04
Sband delay (usec)	2.55890626867E+03		Apriori clock (usec)		-2.2270489E-01		Resid sbdelay (usec)		-5.29163E-01	+/- 1.3E-03
Phase delay (usec)	2.55943543491E+03		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		2.99680E-06	+/- 5.8E-07
Delay rate (us/s)	1.35632431018E+00		Apriori rate (us/s)		1.35633001090E+00		Resid rate (us/s)		-5.70072E-06	+/- 2.8E-09
Total phase (deg)	130.8		Apriori accel (us/s/s)		-3.89832518475E-05		Resid phase (deg)		92.9	+/- 17.9

	RMS	Theor.	Amplitude	0.139 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.3	42.9	Search (2048X32)	0.122	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	56.0	74.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	24.1	25.3	Inc. seg. avg.	0.137	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	21.8	44.1	Inc. frq. avg.	0.133	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

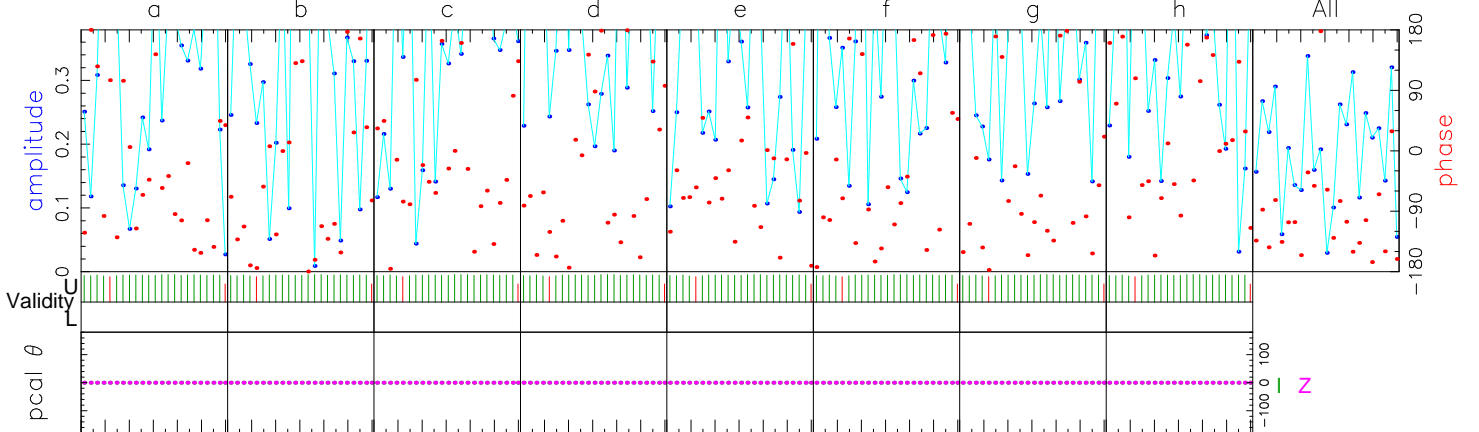
k: az 61.4 el 47.0 pa -85.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -10428.147 -4891.754 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/kZ.W.160.193QBF



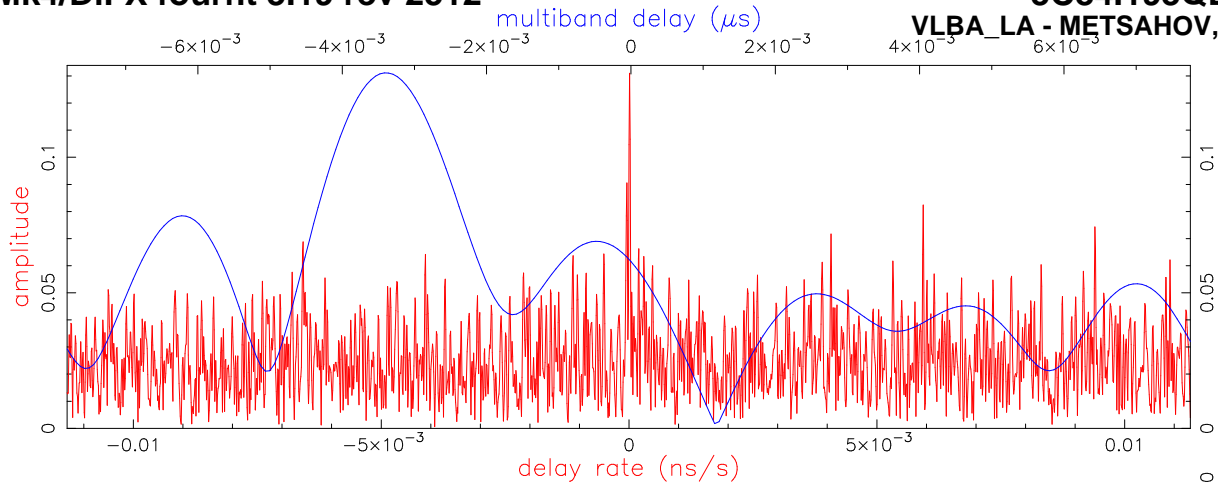
Fringe quality 0
 SNR 6.5
 Int time 350.853
 Amp 0.126
 Phase -104.1
 PFD 2.6e-02
 Delays (us)
 SBD 0.002324
 MBD -0.006000
 Fringe rate (Hz) 0.001010
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122517
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



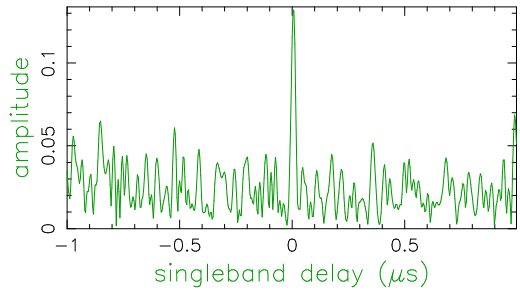
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.4	-141.6	-60.8	-111.5	-64.2	-137.5	-113.4	40.5	Phase	-104.1
	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.0	Ampl.	0.1
	255.3	175.3	127.9	259.3	256.7	215.3	255.6	388.2	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.90148809949E+03		Apriori delay (usec)		3.90147847444E+03		Resid mbdelay (usec)		-5.99995E-03	+/- 1.7E-04
Sband delay (usec)	3.90148079819E+03		Apriori clock (usec)		-3.6126151E+00		Resid sbdelay (usec)		2.32375E-03	+/- 1.3E-03
Phase delay (usec)	3.90147847108E+03		Apriori clockrate (us/s)		-1.6700000E-07		Resid phdelay (usec)		-3.35823E-06	+/- 5.7E-07
Delay rate (us/s)	1.26530158016E+00		Apriori rate (us/s)		1.26530156843E+00		Resid rate (us/s)		1.17309E-08	+/- 2.7E-09
Total phase (deg)	179.6		Apriori accel (us/s/s)		-4.19961907010E-05		Resid phase (deg)		-104.1	+/- 17.7

ph/seg (deg) 49.5 42.4 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.2 74.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 67.3 25.0 Inc. seg. avg. 0.152 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.1 43.7 Inc. frq. avg. 0.132 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.164.193QBF

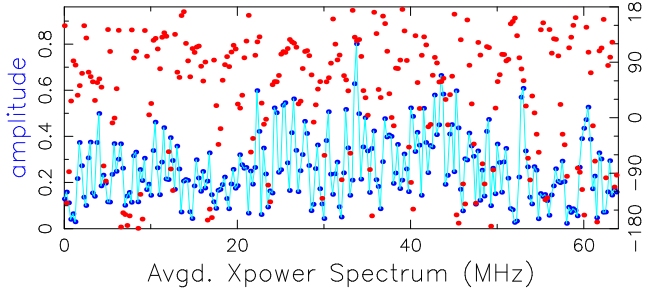


Fringe quality 0

SNR 6.9
 Int time 350.853
 Amp 0.134
 Phase -159.5
 PFD 2.0e-03
 Delays (us)
 SBD 0.005663
 MBD -0.003448
 Fringe rate (Hz)
 0.000672
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

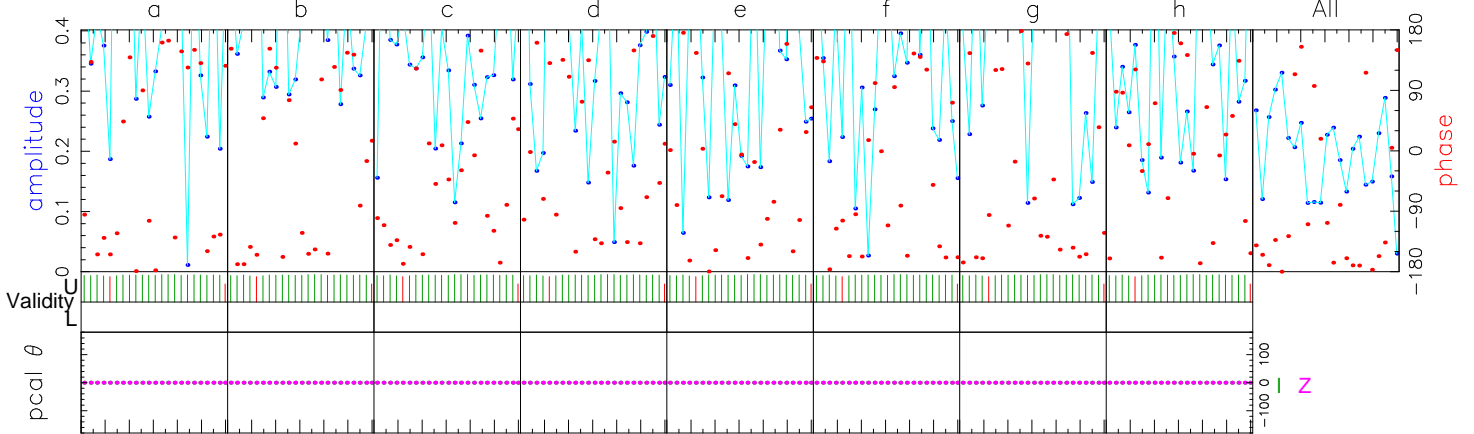


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122521
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

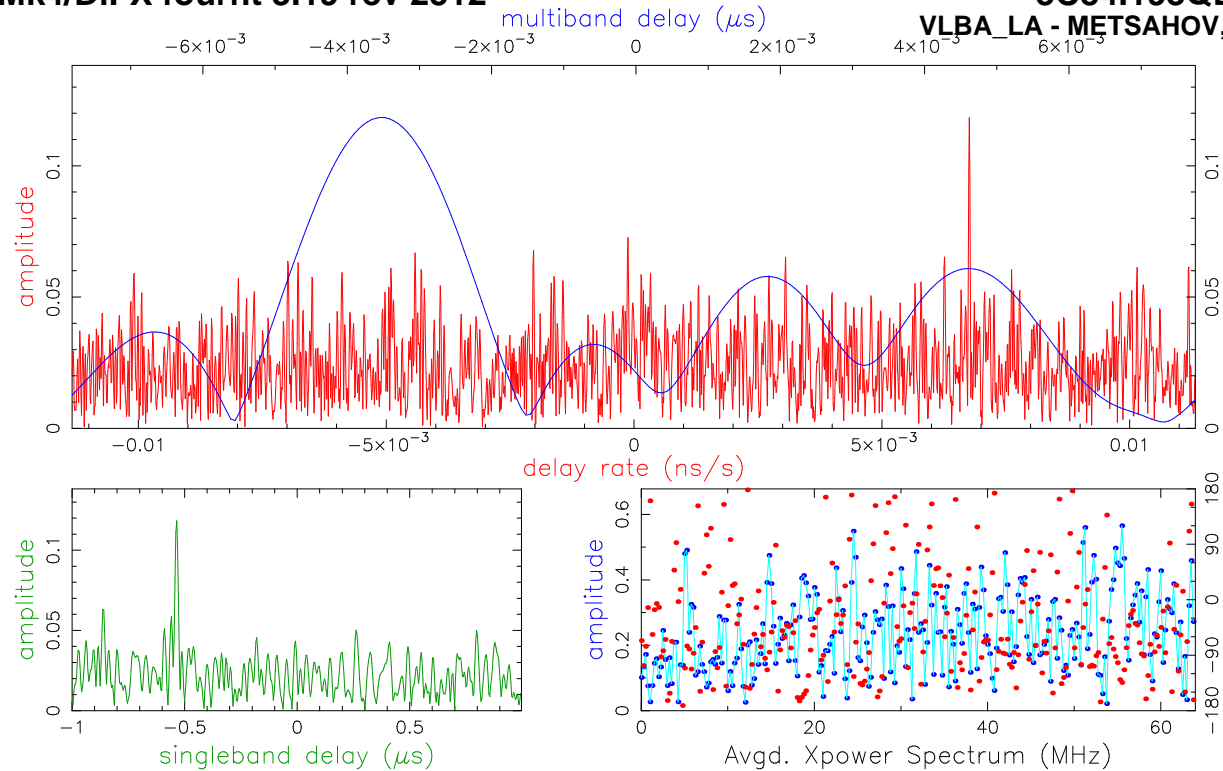


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.1	175.6	-96.4	-135.1	-100.6	179.1	-148.7	126.1		Phase -159.5
	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.1		Ampl. 0.1
	259.1	258.3	8.5	428.9	289.5	257.2	256.9	103.3		Sbd box 258.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used
I	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
I	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	3.90149065133E+03		Apriori delay (usec)		3.90147847444E+03		Resid mbdelay (usec)		-3.44810E-03	+/- 1.6E-04
Sband delay (usec)	3.90148413769E+03		Apriori clock (usec)		-3.6126151E+00		Resid sbdelay (usec)		5.66325E-03	+/- 1.3E-03
Phase delay (usec)	3.90147846929E+03		Apriori clockrate (us/s)		-1.6700000E-07		Resid phdelay (usec)		-5.14498E-06	+/- 5.4E-07
Delay rate (us/s)	1.26530157623E+00		Apriori rate (us/s)		1.26530156843E+00		Resid rate (us/s)		7.79768E-09	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.19961907010E-05		Resid phase (deg)		-159.5	+/- 16.7

	RMS	Theor.	Amplitude	0.134 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	67.5	40.1	Search (2048X32)	0.129	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	70.5	69.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	50.0	23.6	Inc. seg. avg.	0.159	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	49.6	41.2	Inc. frq. avg.	0.146	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.180.193QBF

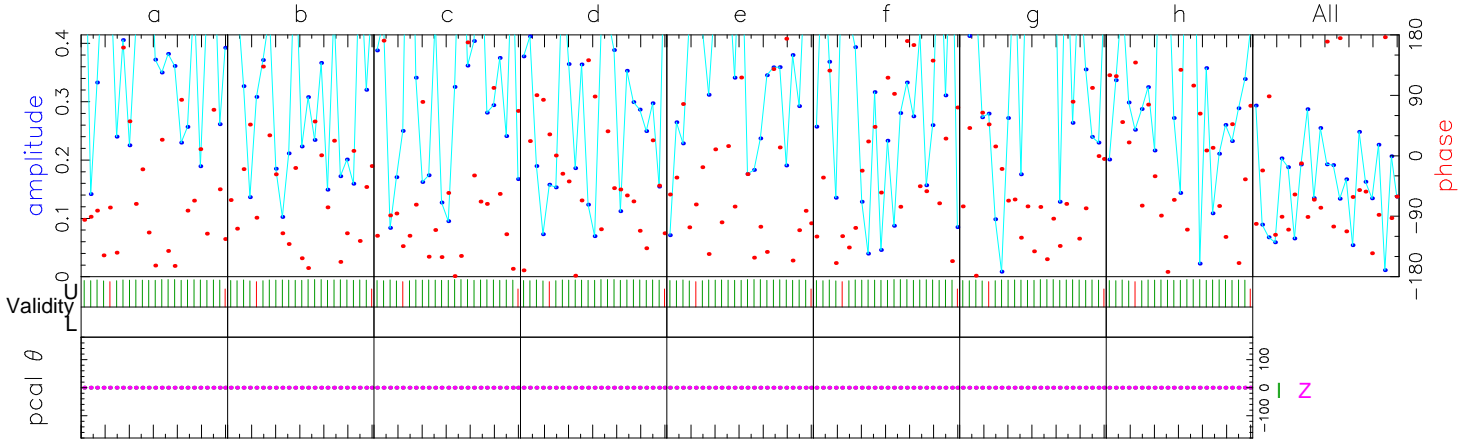


Fringe quality 0

SNR 6.1
 Int time 350.853
 Amp 0.138
 Phase -89.4
 PFD 2.6e-01
 Delays (us)
 SBD -0.535940
 MBD -0.003562
 Fringe rate (Hz)
 0.583164
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122525
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

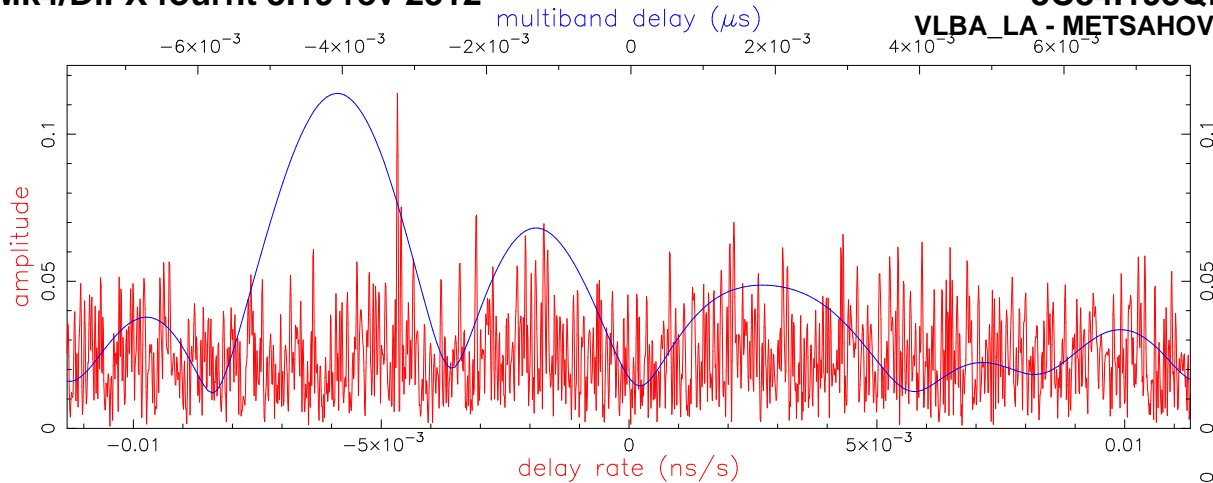


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-98.7	-52.0	-123.1	-51.0	-82.8	-111.6	-85.1	25.4	Phase	-89.4
	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.0	Ampl.	0.1
	93.4	211.2	120.5	259.5	155.4	447.3	257.5	188.0	Sbd box	119.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

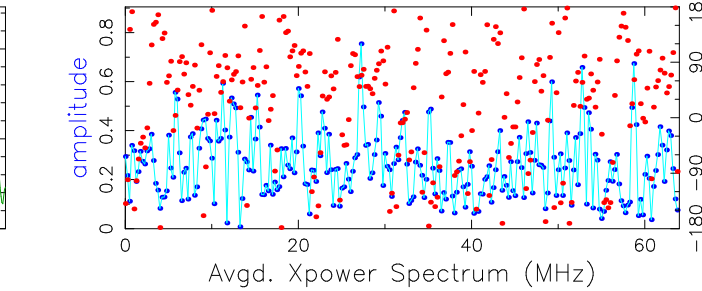
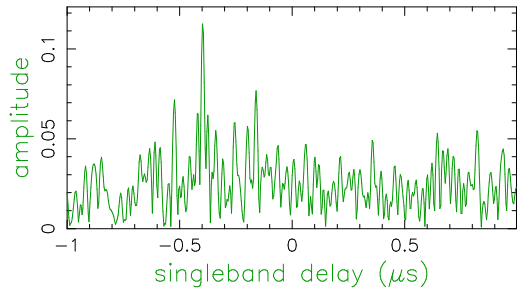
Group delay (usec)(sbd) 3.90094366212E+03 Apriori delay (usec) 3.90147847444E+03 Resid mbdelay (usec) -3.56232E-03 +/- 1.8E-04
 Sband delay (usec) 3.90094253494E+03 Apriori clock (usec) -3.6126151E+00 Resid sbdelay (usec) -5.35940E-01 +/- 1.4E-03
 Phase delay (usec) 3.90147847155E+03 Apriori clockrate (us/s) -1.6700000E-07 Resid phdelay (usec) -2.88325E-06 +/- 6.1E-07
 Delay rate (us/s) 1.26530833839E+00 Apriori rate (us/s) 1.26530156843E+00 Resid rate (us/s) 6.76996E-06 +/- 2.9E-09
 Total phase (deg) 194.3 Apriori accel (us/s/s) -4.19961907010E-05 Resid phase (deg) -89.4 +/- 18.8

RMS Theor. Amplitude 0.138 +/- 0.023 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 60.2 45.1 Search (2048X32) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.2 78.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 54.5 26.6 Inc. seg. avg. 0.143 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 52.1 46.5 Inc. frq. avg. 0.138 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.198.193QBF

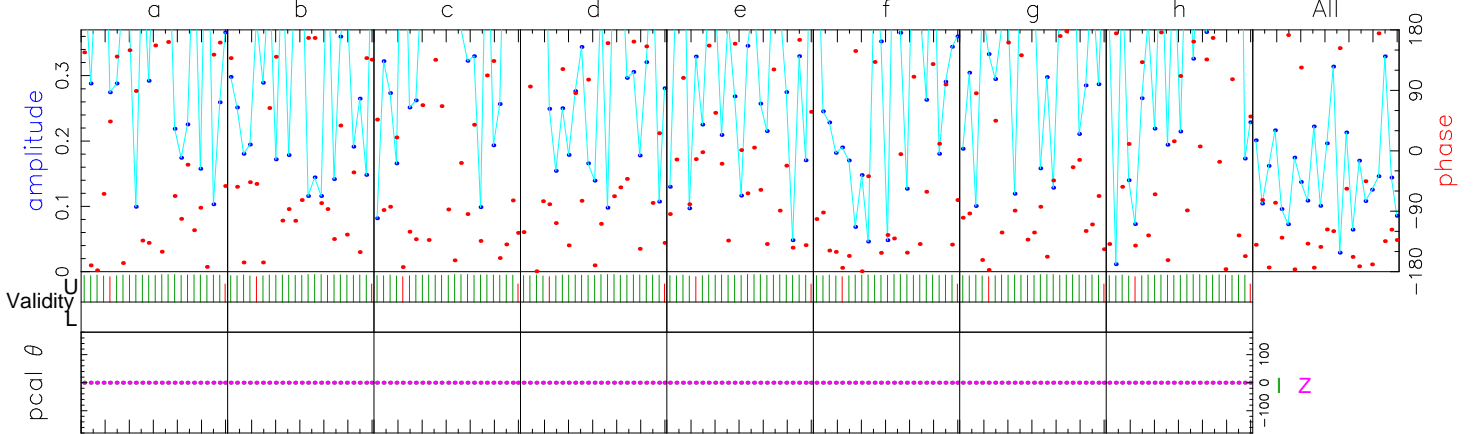


Fringe quality 0
SNR 5.9
Int time 350.853
Amp 0.123
Phase -137.9
PFD 6.3e-01
Delays (us)
SBD -0.397322
MBD -0.004075
Fringe rate (Hz)
-0.403243
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122529
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

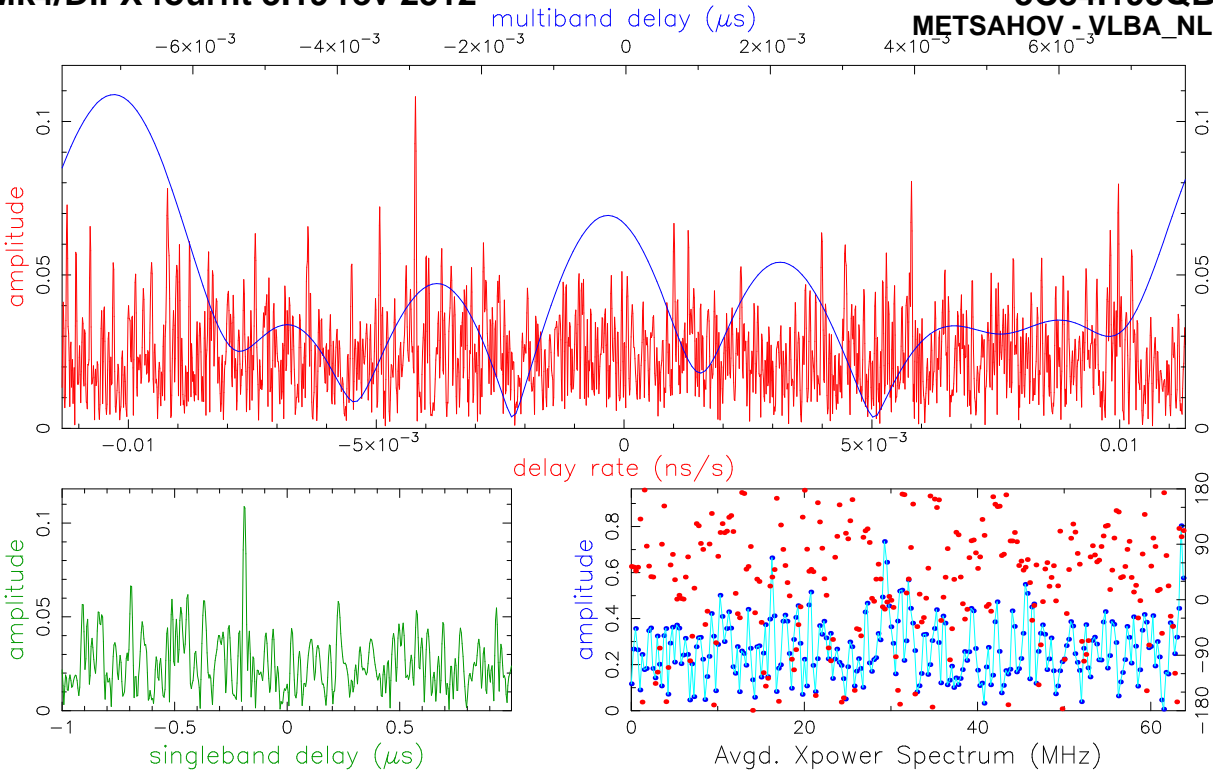


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	3.90108377402E+03	Apriori delay (usec)		3.90147847444E+03	Resid mbdelay (usec)		-4.07542E-03	+/- 1.8E-04	
Sband delay (usec)	3.90108115219E+03	Apriori clock (usec)		0.110	Resid sbdelay (usec)		-3.97322E-01	+/- 1.5E-03	
Phase delay (usec)	3.90147846999E+03	Apriori clockrate (us/s)		-1.6700000E-07	Resid phdelay (usec)		-4.44830E-06	+/- 6.3E-07	
Delay rate (us/s)	1.26529688717E+00	Apriori rate (us/s)		1.26530156843E+00	Resid rate (us/s)		-4.68125E-06	+/- 3.0E-09	
Total phase (deg)	145.8	Apriori accel (us/s/s)		-4.19961907010E-05	Resid phase (deg)		-137.9	+/- 19.5	

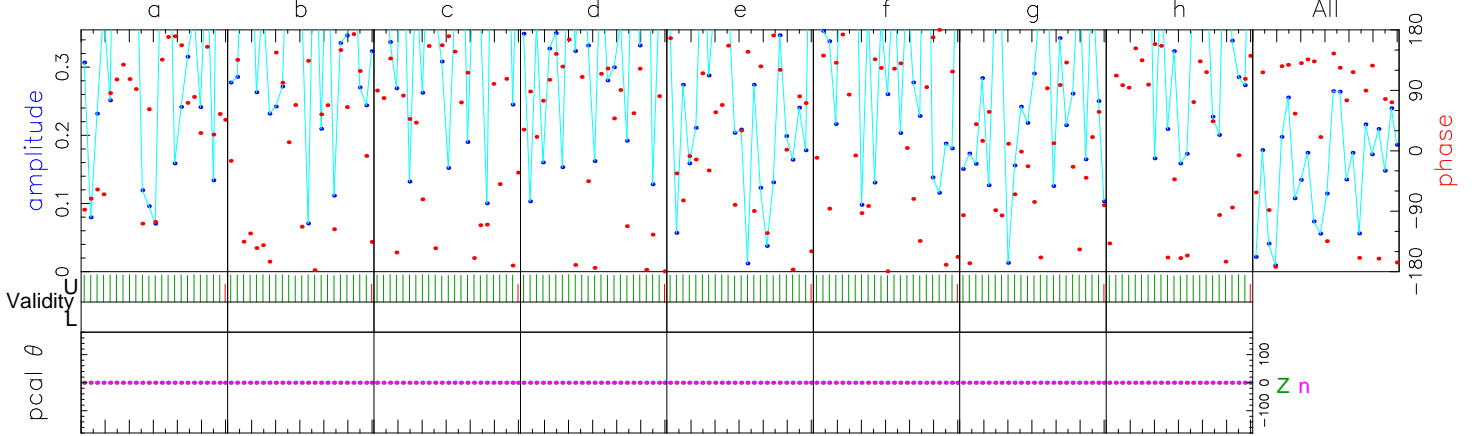
ph/seg (deg)	47.2	Theor.	46.7	Amplitude	0.123 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	72.4		81.5	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	60.3		27.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	44.4		48.0	Inc. seg. avg.	0.125	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.122	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.218.193QBF



Fringe quality 0
 SNR 5.7
 Int time 353.279
 Amp 0.118
 Phase 123.6
 PFD 9.1e-01
 Delays (us)
 SBD -0.189580
 MBD -0.007214
 Fringe rate (Hz)
 -0.362676
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122533
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

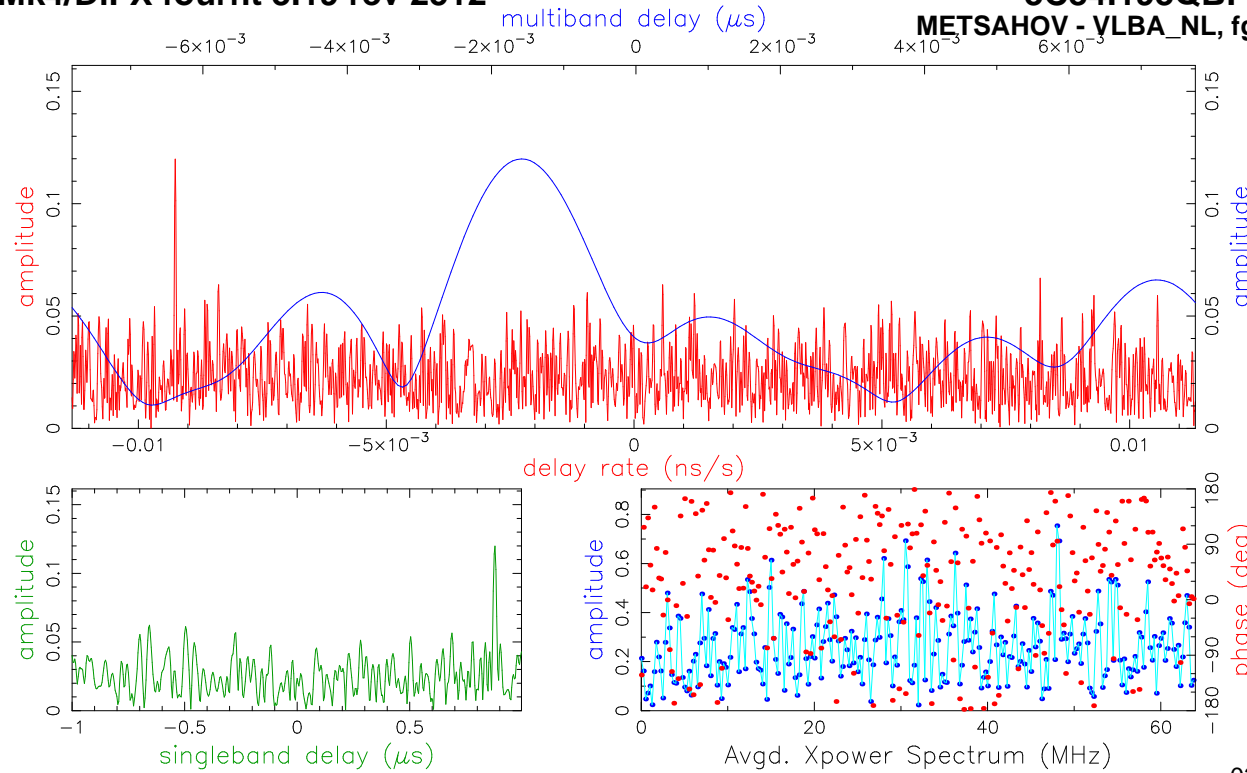


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.31753757567E+03	Apriori delay (usec)	-6.31734286216E+03	Resid mbdelay (usec)	-7.21351E-03	+/-	1.9E-04
Sband delay (usec)	-6.31753244166E+03	Apriori clock (usec)	-3.2443150E+01	Resid sbdelay (usec)	-1.89580E-01	+/-	1.5E-03
Phase delay (usec)	-6.31734285818E+03	Apriori clockrate (us/s)	-3.1799997E-07	Resid phdelay (usec)	3.98483E-06	+/-	6.4E-07
Delay rate (us/s)	-1.03949527305E+00	Apriori rate (us/s)	-1.03949106274E+00	Resid rate (us/s)	-4.21031E-06	+/-	3.1E-09
Total phase (deg)	70.8	Apriori accel (us/s/s)	4.85560910698E-05	Resid phase (deg)	123.6	+/-	20.0

ph/seg (deg)	68.4	Theor.	47.9	Amplitude	0.118 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.4	Search (2048X32)	0.107	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	66.2	Inc. seg. avg.	0.117	Inc. frq. avg.	0.118	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	53.4	Inc. frq. avg.	0.118			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 288.5 el 38.5 pa 39.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8015.984 4669.346 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zn.W.235.193QBF

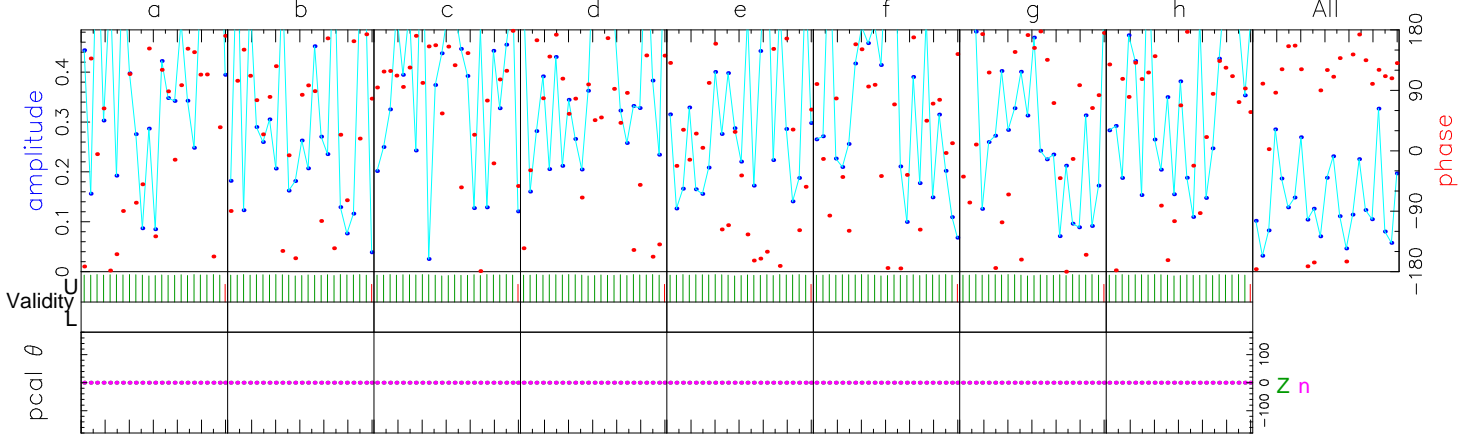


Fringe quality 0

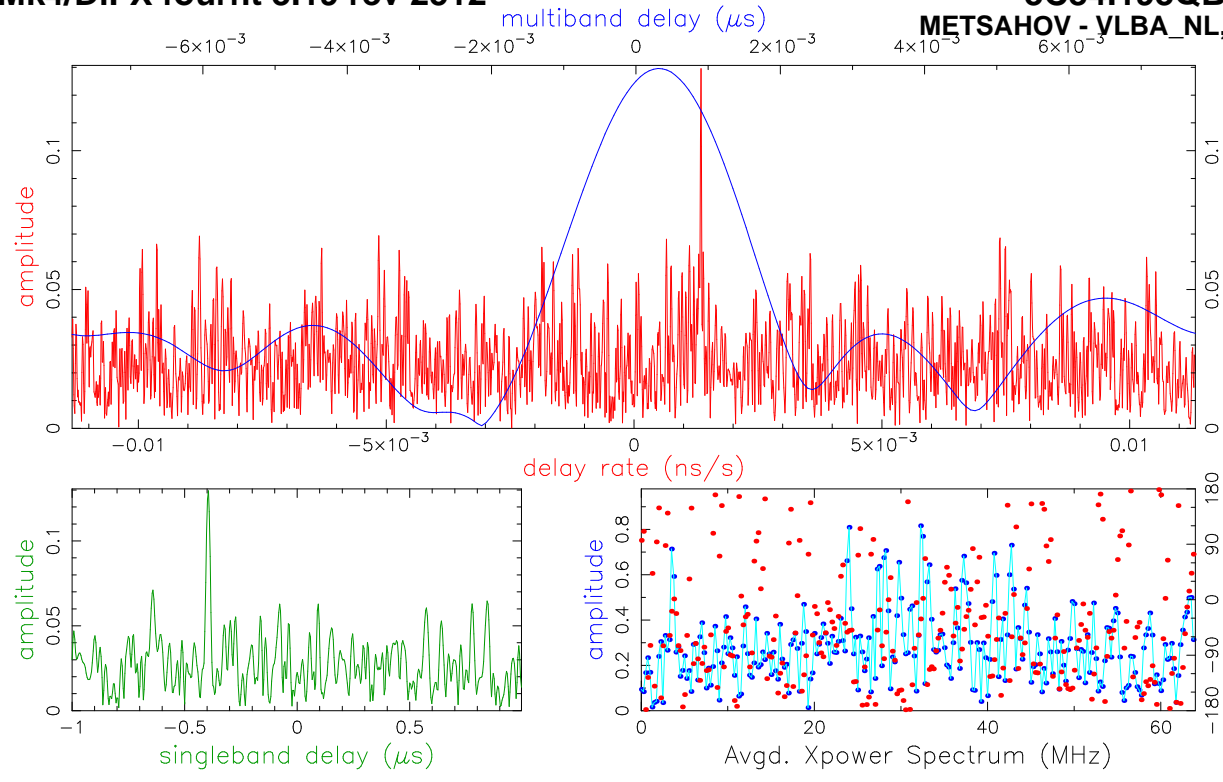
SNR 6.2
 Int time 353.279
 Amp 0.162
 Phase 129.9
 PFD 1.4e-01
 Delays (us)
 SBD 0.877911
 MBD -0.001618
 Fringe rate (Hz)
 -0.798714
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122537
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.31646947984E+03									
Sband delay (usec)	-6.31646495091E+03									
Phase delay (usec)	-6.31734285797E+03									
Delay rate (us/s)	-1.03950033501E+00									
Total phase (deg)			77.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Z n										
Chan ids										
Tracks										
Chan ids										
Tracks										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
SampCntNorm: enabled										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

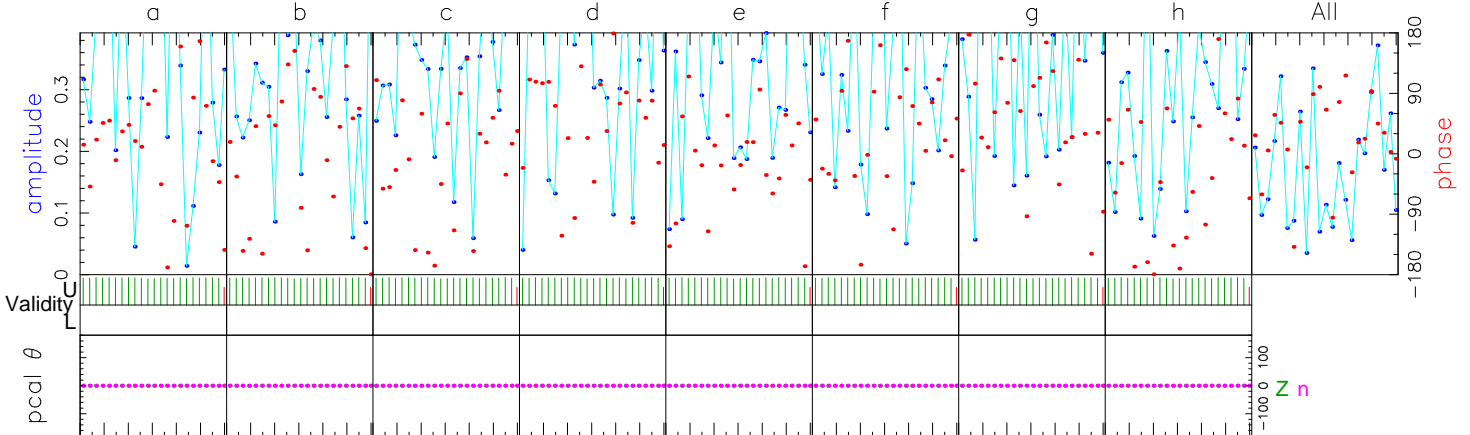


Fringe quality 0

SNR 6.7
 Int time 353.279
 Amp 0.131
 Phase 44.2
 PFD 6.9e-03
 Delays (us)
 SBD -0.395359
 MBD 0.000287
 Fringe rate (Hz)
 0.116479
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

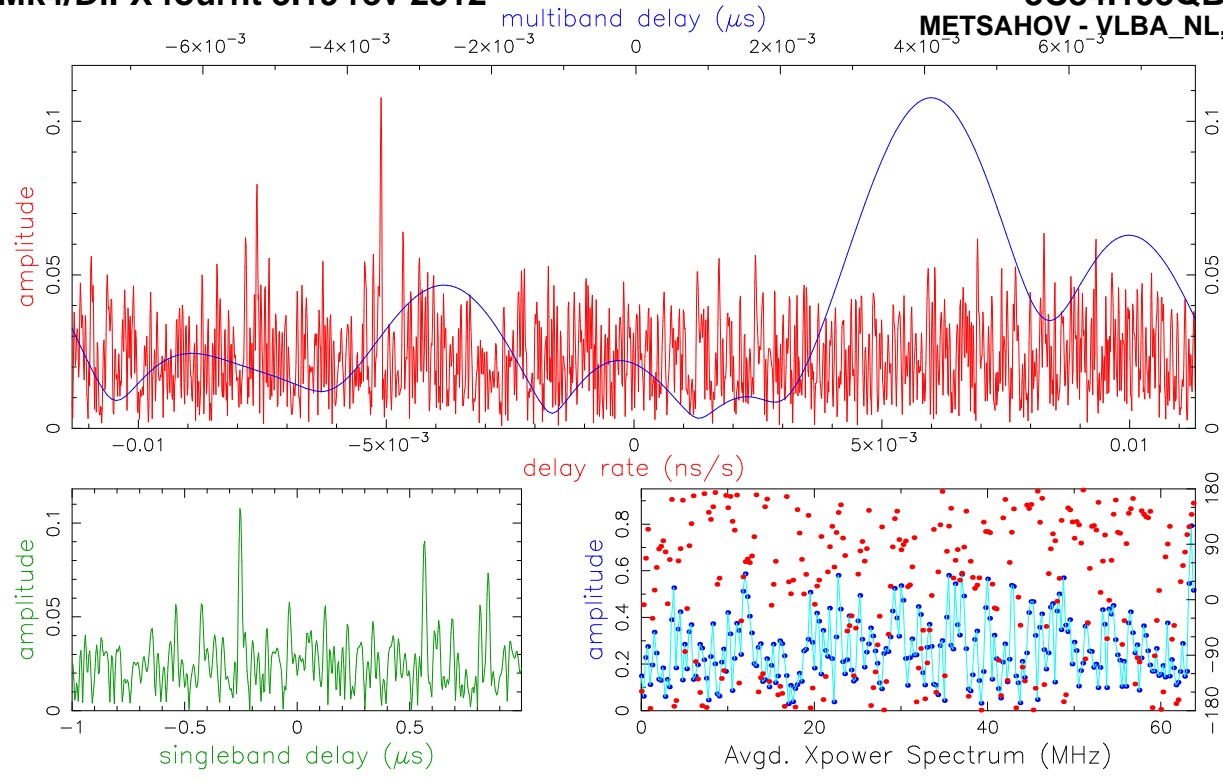
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122540
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



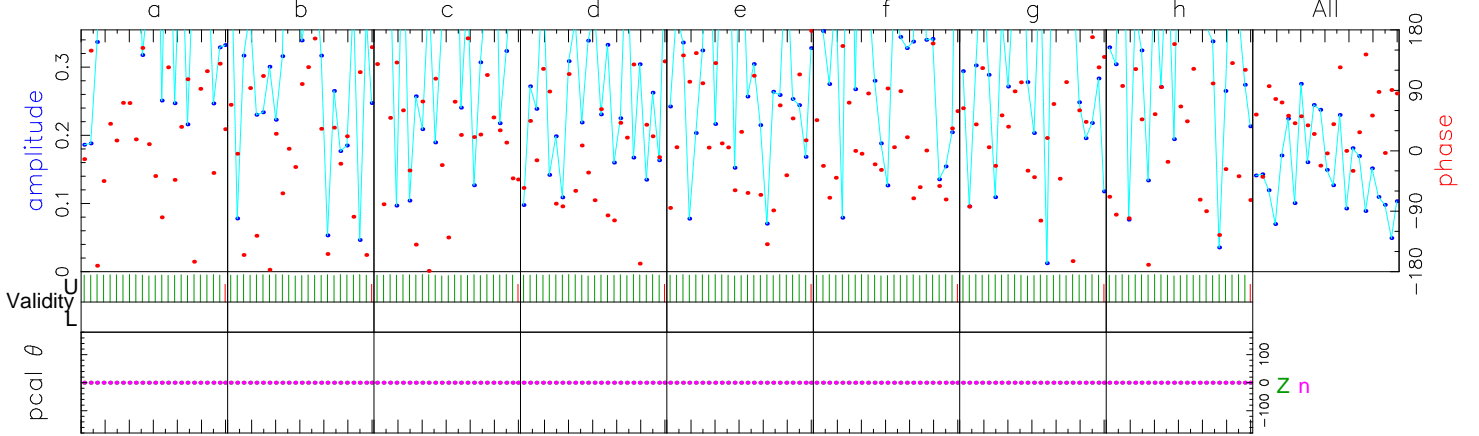
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	30.0	84.0	27.6	68.2	11.2	43.1	69.5	20.4	Phase	44.2
	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	Ampl.	0.1
	431.1	169.9	377.8	270.0	155.8	279.7	91.8	435.8	Sbd box	155.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.31773320004E+03		Apriori delay (usec)		-6.31734286216E+03		Resid mbdelay (usec)		2.87122E-04	+/- 1.6E-04
Sband delay (usec)	-6.31773822066E+03		Apriori clock (usec)		-3.2443150E+01		Resid sbdelay (usec)		-3.95359E-01	+/- 1.3E-03
Phase delay (usec)	-6.31734286074E+03		Apriori clockrate (us/s)		-3.1799997E-07		Resid phdelay (usec)		1.42450E-06	+/- 5.5E-07
Delay rate (us/s)	-1.03948971054E+00		Apriori rate (us/s)		-1.03949106274E+00		Resid rate (us/s)		1.35220E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.85560910698E-05		Resid phase (deg)		44.2	+/- 17.2

ph/seg (deg) 64.2 41.1 Search (2048X32) 0.128 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.0 71.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 24.3 Inc. seg. avg. 0.140 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.6 42.3 Inc. frq. avg. 0.131 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8015.984 4669.346 ion window (TEC) 0.00 0.00
 simultaneous interpolator



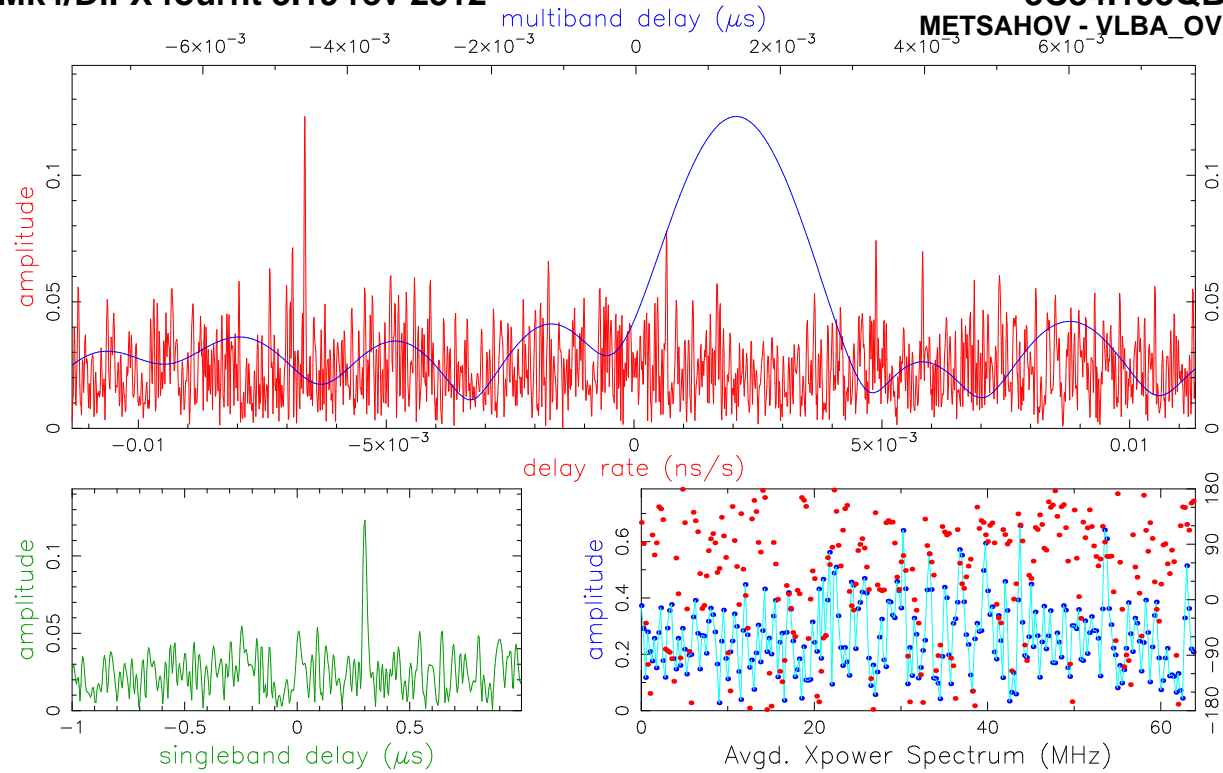
Fringe quality 0
 SNR 5.6
 Int time 353.279
 Amp 0.118
 Phase 40.9
 PFD 1.0e+00
 Delays (us)
 SBD -0.252765
 MBD 0.004112
 Fringe rate (Hz)
 -0.439845
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122544
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.31758875036E+03								4.11180E-03	+/- 1.9E-04
Sband delay (usec)	-6.31759562741E+03								-2.52765E-01	+/- 1.5E-03
Phase delay (usec)	-6.31734286084E+03								1.31739E-06	+/- 6.6E-07
Delay rate (us/s)	-1.03949616891E+00								-5.10617E-06	+/- 3.2E-09
Total phase (deg)			-11.9						40.9	+/- 20.5
ph/seg (deg)	47.3	49.2								
amp/seg (%)	66.5	85.9								
ph/frq (deg)	29.4	29.0								
amp/frq (%)	43.4	50.7								
Z: az 288.5 el 38.5 pa 39.1	n: az 79.2 el 65.3 pa -78.1		u,v (fr/asec) 8015.984 4669.346		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
Control file: cf_1234_gmva	Input file: /Exps/c201d/v1/1234/No0057/Zn..193QBF		Output file: /Exps/c201d/v1/1234/No0057/Zn.W.261.193QBF		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
						Bits/sample: 2x2	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00

simultaneous interpolator

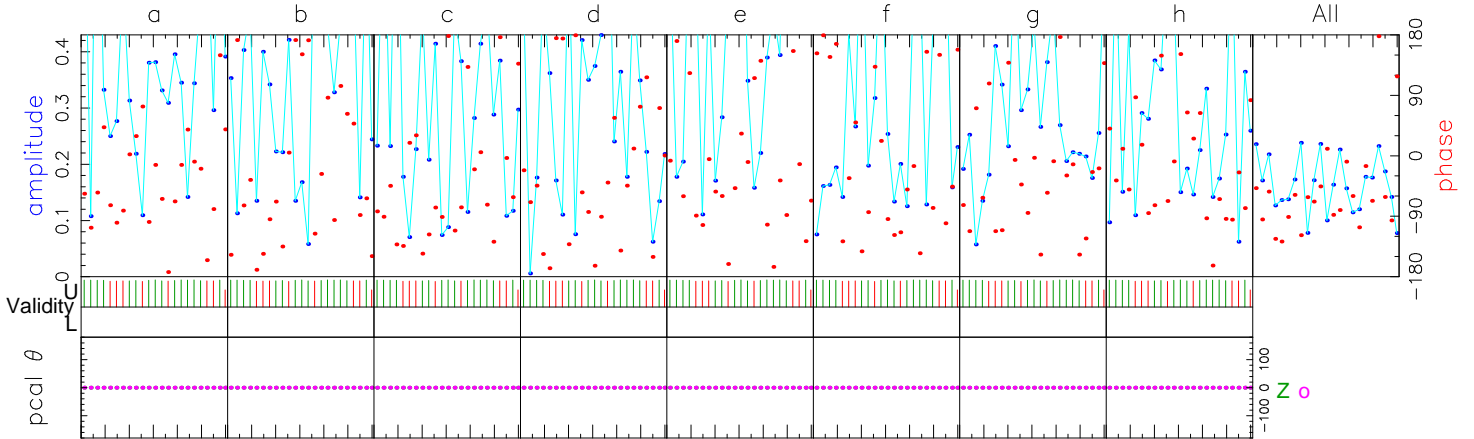


Fringe quality 0

SNR 6.3
 Int time 345.368
 Amp 0.143
 Phase -74.3
 PFD 7.9e-02
 Delays (us)
 SBD 0.299652
 MBD 0.001354
 Fringe rate (Hz)
 -0.573056
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122533
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



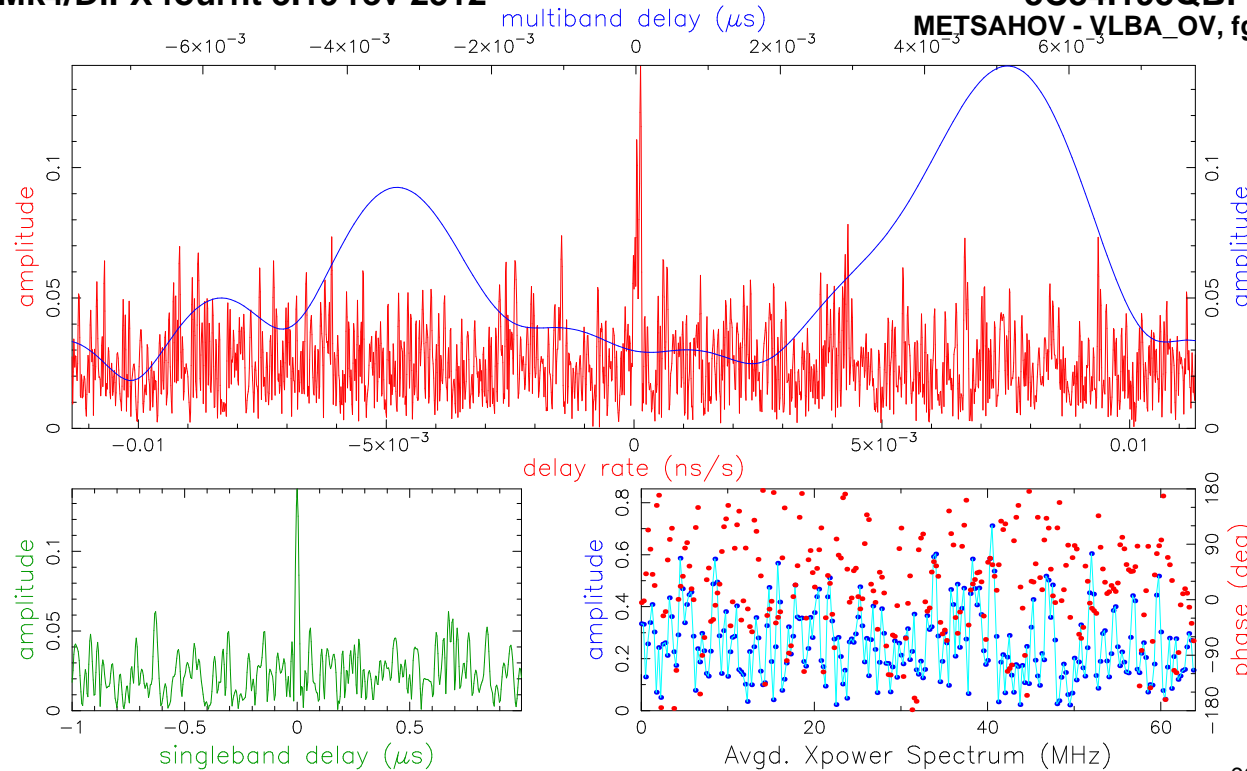
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-55.0	-74.4	-98.3	-85.1	-68.1	-112.6	-61.4	-52.3	Phase	-74.3
	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	334.1	102.2	271.4	498.4	163.1	97.4	445.7	283.7	Sbd box	333.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.91907034548E+03	Apriori delay (usec)	-1.91936857472E+03	Resid mbdelay (usec)	1.35424E-03	+/-	1.7E-04
Sband delay (usec)	-1.91906892297E+03	Apriori clock (usec)	-2.0227209E+01	Resid sbdelay (usec)	2.99652E-01	+/-	1.4E-03
Phase delay (usec)	-1.91936857711E+03	Apriori clockrate (us/s)	-1.8500001E-07	Resid phdelay (usec)	-2.39475E-06	+/-	5.9E-07
Delay rate (us/s)	-1.36869278602E+00	Apriori rate (us/s)	-1.36868613341E+00	Resid rate (us/s)	-6.65261E-06	+/-	2.8E-09
Total phase (deg)	-83.7	Apriori accel (us/s/s)	2.98052202878E-05	Resid phase (deg)	-74.3	+/-	18.2

ph/seg (deg)	50.3	Theor.	43.6	Amplitude	0.143 +/- 0.023	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	51.7	Search (2048X32)	0.121	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.2	Inc. seg. avg.	0.149	Inc. frq. avg.	0.138	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	29.2	Inc. frq. avg.	0.138			Sample rate (MSamp/s):	128	ion window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite

Z: az 288.5 el 38.5 pa 39.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10512.337 3750.026 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zo.W.236.193QBF

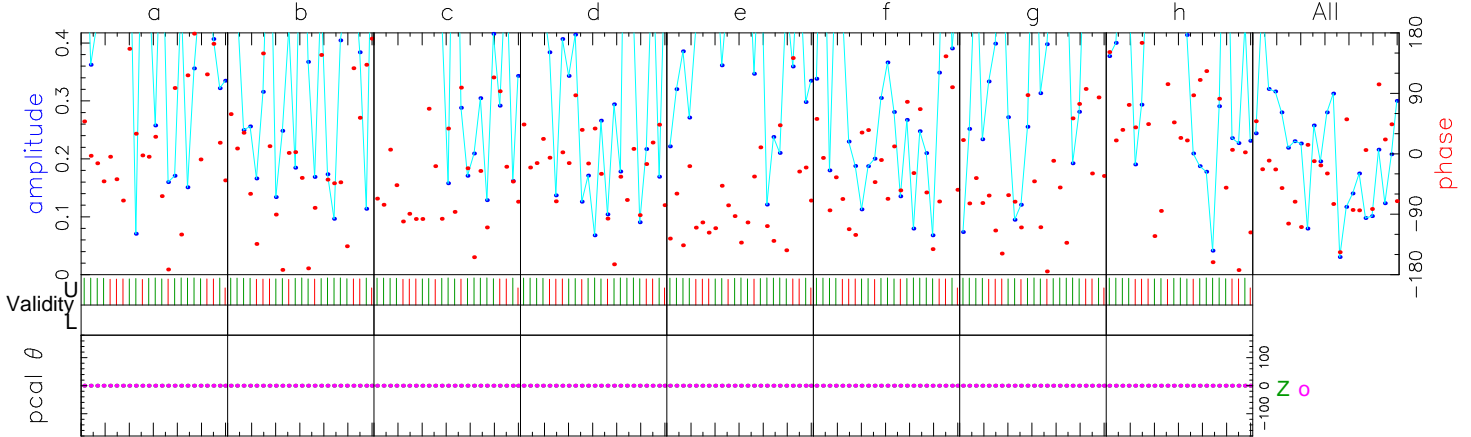


Fringe quality 0

SNR 7.1
 Int time 345.369
 Amp 0.139
 Phase -32.2
 PFD 4.6e-04
 Delays (us)
 SBD -0.000508
 MBD 0.005125
 Fringe rate (Hz)
 0.011222
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122536
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

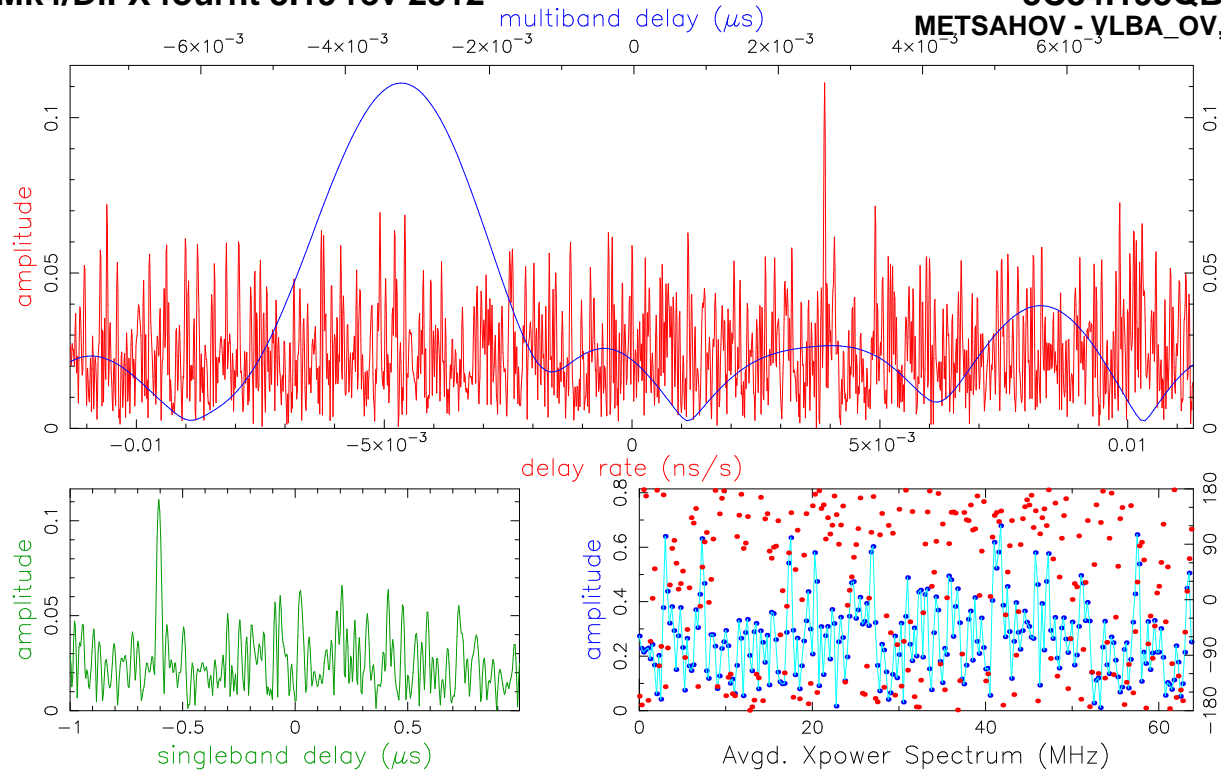


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-10.9	13.5	-54.3	-11.1	-89.2	-21.9	-53.7	35.8	Phase	-32.2
	0.2	0.1	0.2	0.3	0.3	0.1	0.1	0.2	Ampl.	0.2
	177.0	217.0	257.1	257.3	257.2	95.0	162.9	257.9	Sbd box	256.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -1.91936345006E+03 Apriori delay (usec) -1.91936857472E+03 Resid mbdelay (usec) 5.12466E-03 +/- 1.5E-04
 Sband delay (usec) -1.91936908297E+03 Apriori clock (usec) -2.0227209E+01 Resid sbdelay (usec) -5.08250E-04 +/- 1.2E-03
 Phase delay (usec) -1.91936857576E+03 Apriori clockrate (us/s) -1.8500001E-07 Resid phdelay (usec) -1.03988E-06 +/- 5.2E-07
 Delay rate (us/s) -1.36868600313E+00 Apriori rate (us/s) -1.36868613341E+00 Resid rate (us/s) 1.30280E-07 +/- 2.5E-09
 Total phase (deg) -41.7 Apriori accel (us/s/s) 2.98052202878E-05 Resid phase (deg) -32.2 +/- 16.2

RMS Theor. Amplitude 0.139 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.9 38.8 Search (2048X32) 0.136 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 88.8 67.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 44.6 22.9 Inc. seg. avg. 0.174 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.3 40.0 Inc. frq. avg. 0.163 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10512.337 3750.026 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zo.W.246.193QBF

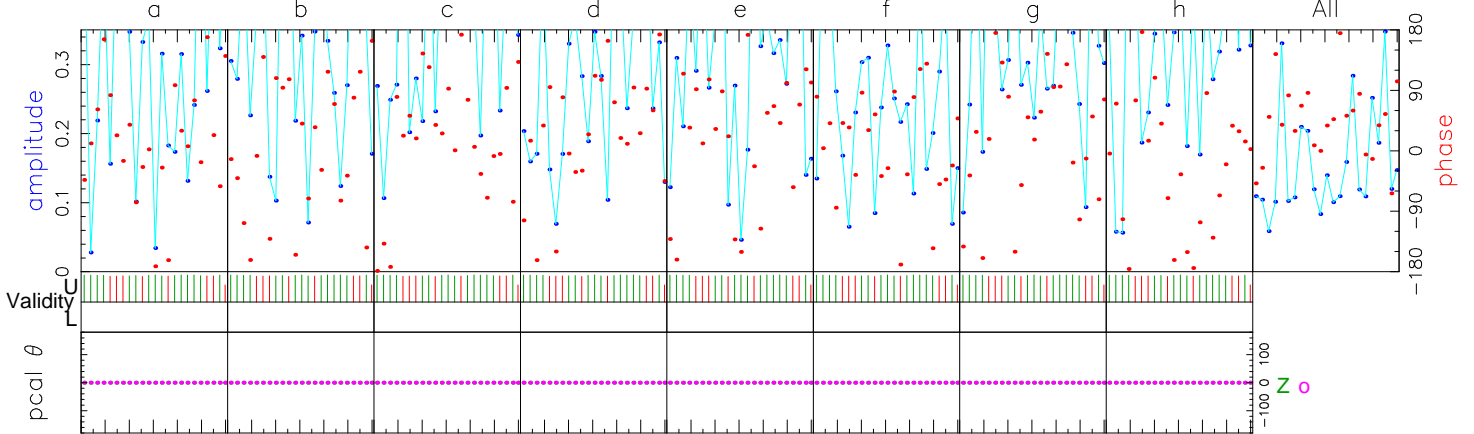


Fringe quality 0

SNR 5.7
 Int time 345.369
 Amp 0.117
 Phase 43.2
 PFD 9.8e-01
 Delays (us)
 SBD -0.605893
 MBD -0.003229
 Fringe rate (Hz)
 0.335534
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122540
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

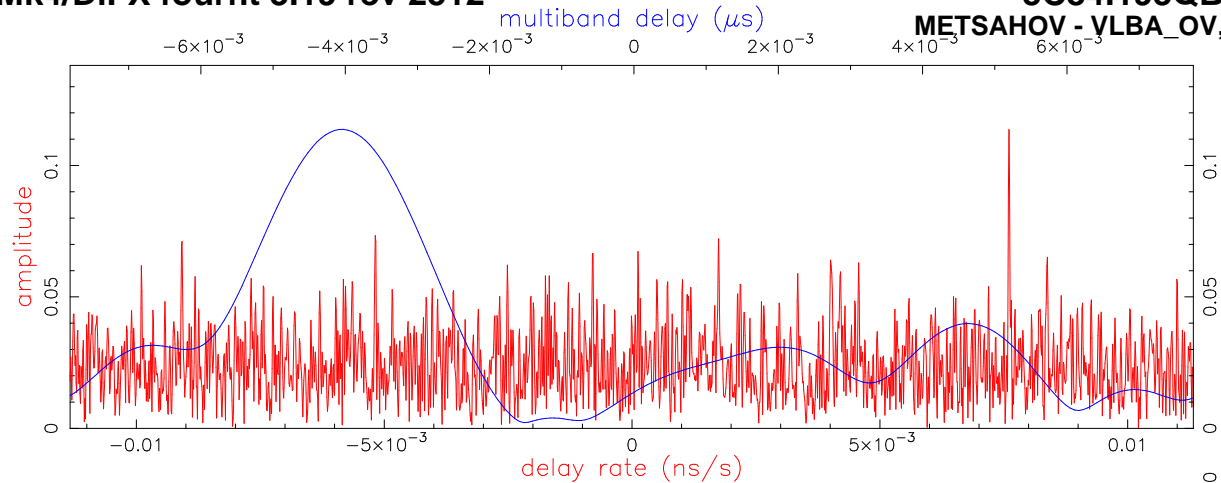
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



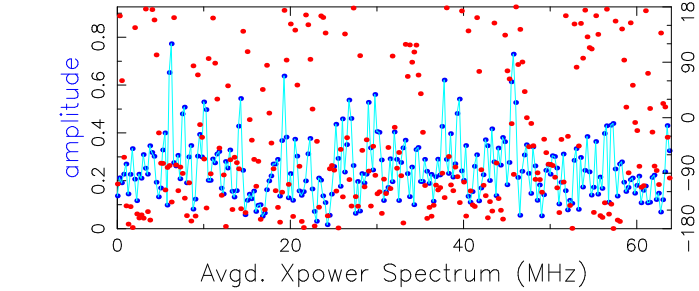
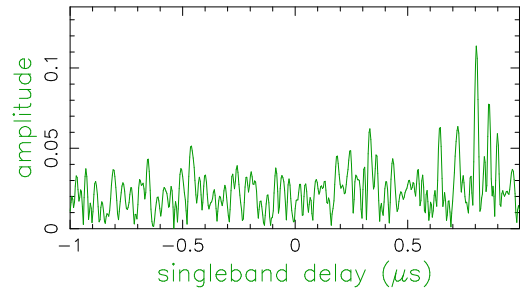
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.91998117871E+03				-1.91936857472E+03				-3.22899E-03	+/- 1.9E-04
Sband delay (usec)	-1.91997446772E+03				-2.0227209E+01				-6.05893E-01	+/- 1.5E-03
Phase delay (usec)	-1.91936857333E+03				-1.8500001E-07				1.39266E-06	+/- 6.5E-07
Delay rate (us/s)	-1.36868223819E+00				-1.36868613341E+00				3.89522E-06	+/- 3.1E-09
Total phase (deg)			33.8		2.98052202878E-05				43.2	+/- 20.3
	RMS	Theor.	Amplitude	0.117 +/- 0.021	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	55.4	48.6	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	81.1	84.8	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	26.6	28.7	Inc. seg. avg.	0.121	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	26.6	50.0	Inc. frq. avg.	0.112	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10512.337 3750.026 simultaneous interpolator

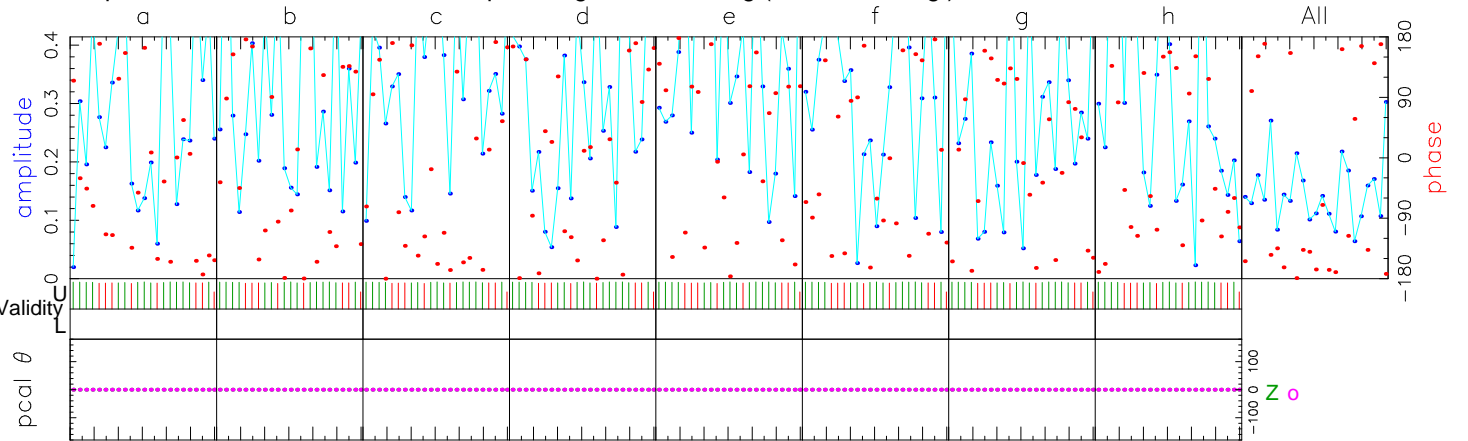
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zo.W.253.193QBF



Fringe quality 0
 SNR 5.8
 Int time 345.368
 Amp 0.138
 Phase -170.6
 PFD 8.4e-01
 Delays (us)
 SBD 0.805149
 MBD -0.004018
 Fringe rate (Hz)
 0.656221
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122543
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

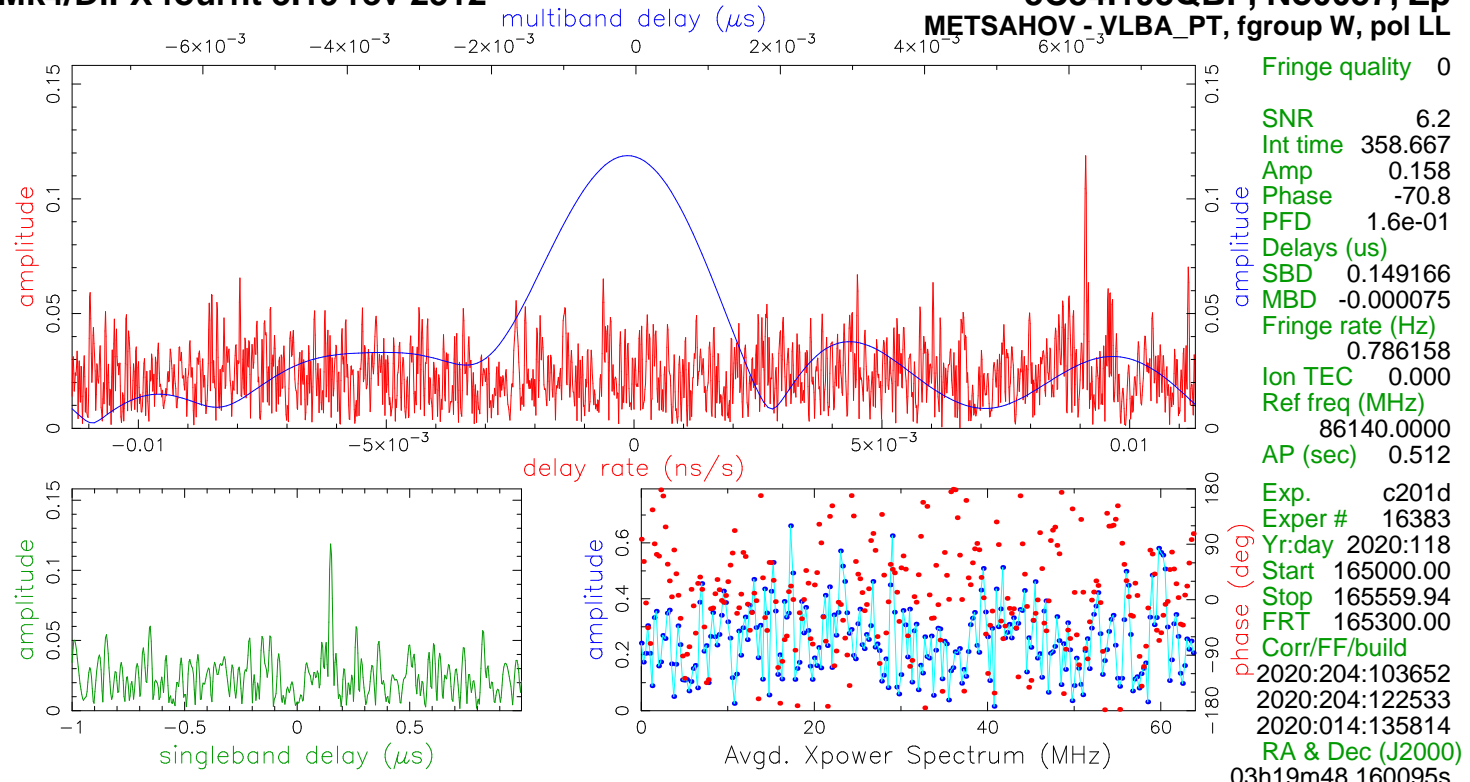


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

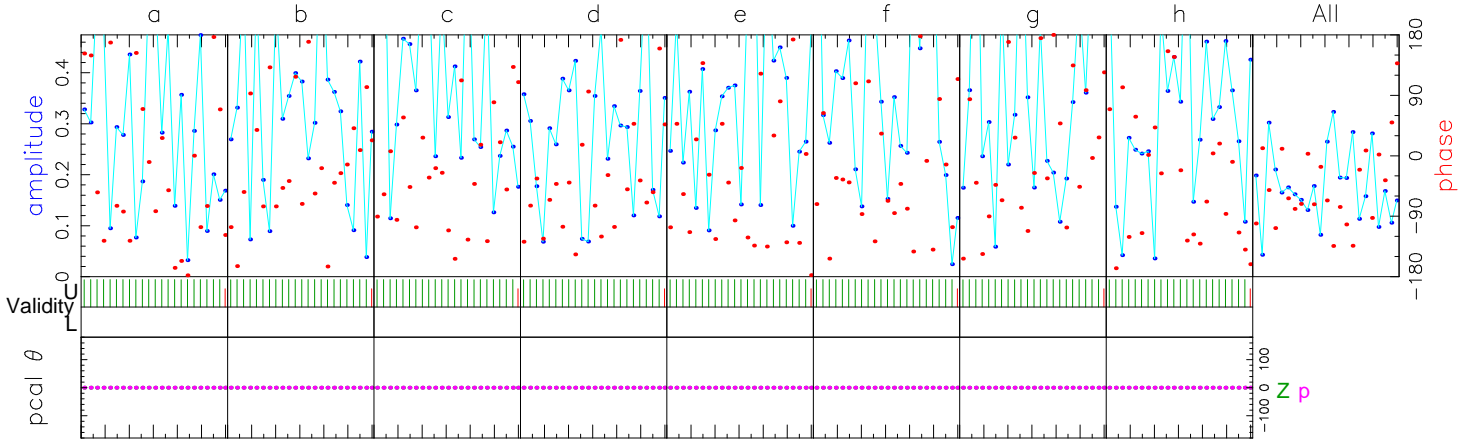


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.5	-179.1	-170.8	172.1	169.3	-147.9	135.7	-155.3	Phase	-170.6
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.1
	187.8	464.0	169.9	266.2	175.0	7.4	477.8	220.4	Sbd box	463.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.91856009233E+03		Apriori delay (usec)		-1.91936857472E+03		Resid mbdelay (usec)		-4.01761E-03	+/- 1.9E-04
Sband delay (usec)	-1.91856342597E+03		Apriori clock (usec)		-2.0227209E+01		Resid sbdelay (usec)		8.05149E-01	+/- 1.5E-03
Phase delay (usec)	-1.91936858022E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-5.50143E-06	+/- 6.4E-07
Delay rate (us/s)	-1.36867851533E+00		Apriori rate (us/s)		-1.36868613341E+00		Resid rate (us/s)		7.61808E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		2.98052202878E-05		Resid phase (deg)		-170.6	+/- 19.8

ph/seg (deg) RMS Theor. Amplitude 0.138 +/- 0.024 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 47.7 47.5 Search (2048X32) 0.113 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.5 82.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.5 28.0 Inc. seg. avg. 0.133 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 33.4 48.9 Inc. frq. avg. 0.133 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Z: az 288.5 el 38.5 pa 39.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10512.337 3750.026 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zo.W.259.193QBF

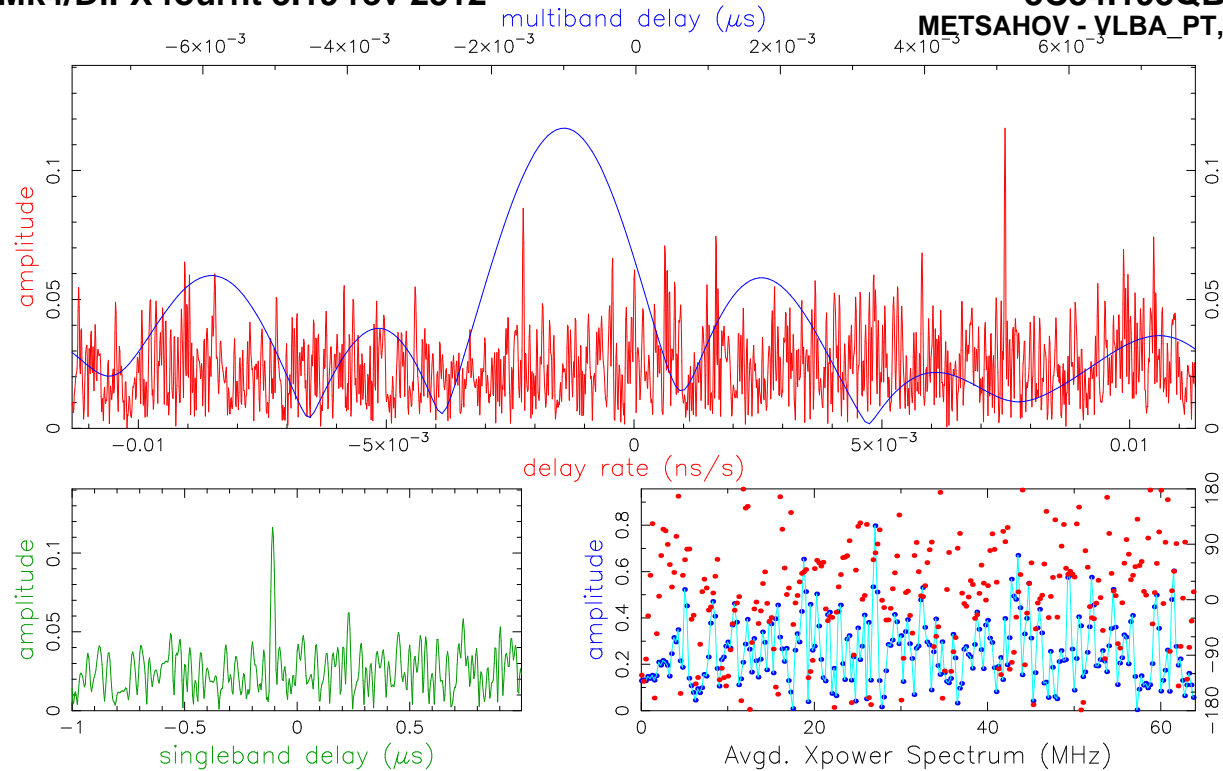


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



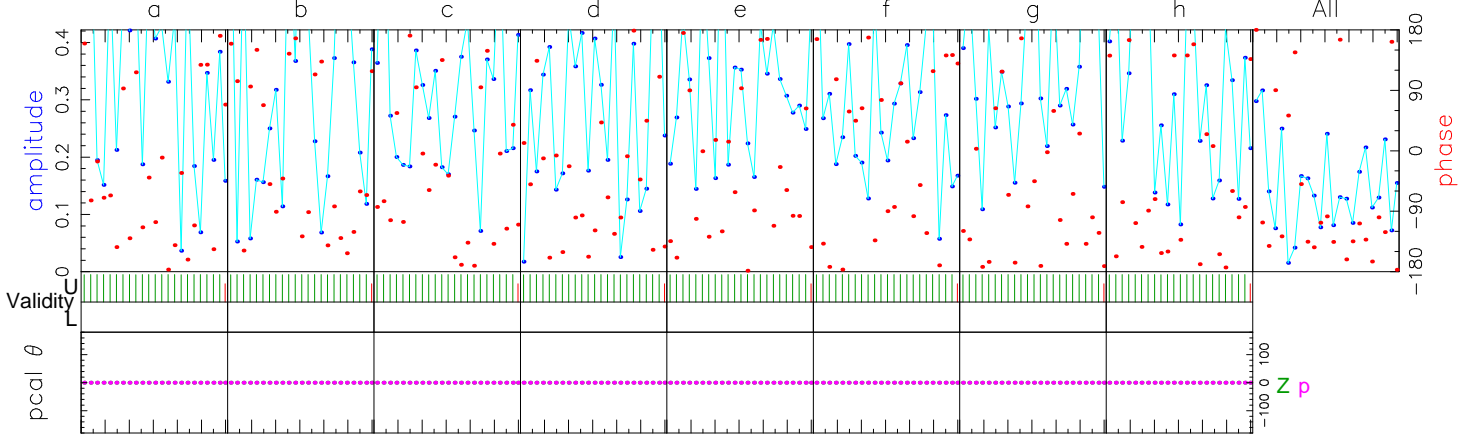
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-91.7	-40.5	-57.1	-78.8	-114.5	-77.1	-46.1	-78.6	Phase	-70.8
	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	Ampl.	0.2
	191.0	171.5	295.6	183.2	225.6	470.3	301.1	82.6	Sbd box	295.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.46599355740E+03		Apriori delay (usec)		-3.46614973215E+03		Resid mbdelay (usec)		-7.52531E-05	+/- 1.8E-04
Sband delay (usec)	-3.4660056615E+03		Apriori clock (usec)		-1.7418974E+01		Resid sbdelay (usec)		1.49166E-01	+/- 1.4E-03
Phase delay (usec)	-3.46614973443E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-2.28386E-06	+/- 6.0E-07
Delay rate (us/s)	-1.29883643359E+00		Apriori rate (us/s)		-1.29884556011E+00		Resid rate (us/s)		9.12652E-06	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		4.11435678840E-05		Resid phase (deg)		-70.8	+/- 18.6

	RMS	Theor.	Amplitude	0.158 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	59.0	44.5	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	78.7	77.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	26.5	26.2	Inc. seg. avg.	0.184	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	29.4	45.8	Inc. frq. avg.	0.153	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			



Fringe quality 0
 SNR 6.0
 Int time 358.667
 Amp 0.141
 Phase -133.8
 PFD 3.2e-01
 Delays (us)
 SBD -0.108579
 MBD -0.000960
 Fringe rate (Hz)
 0.646023
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122537
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

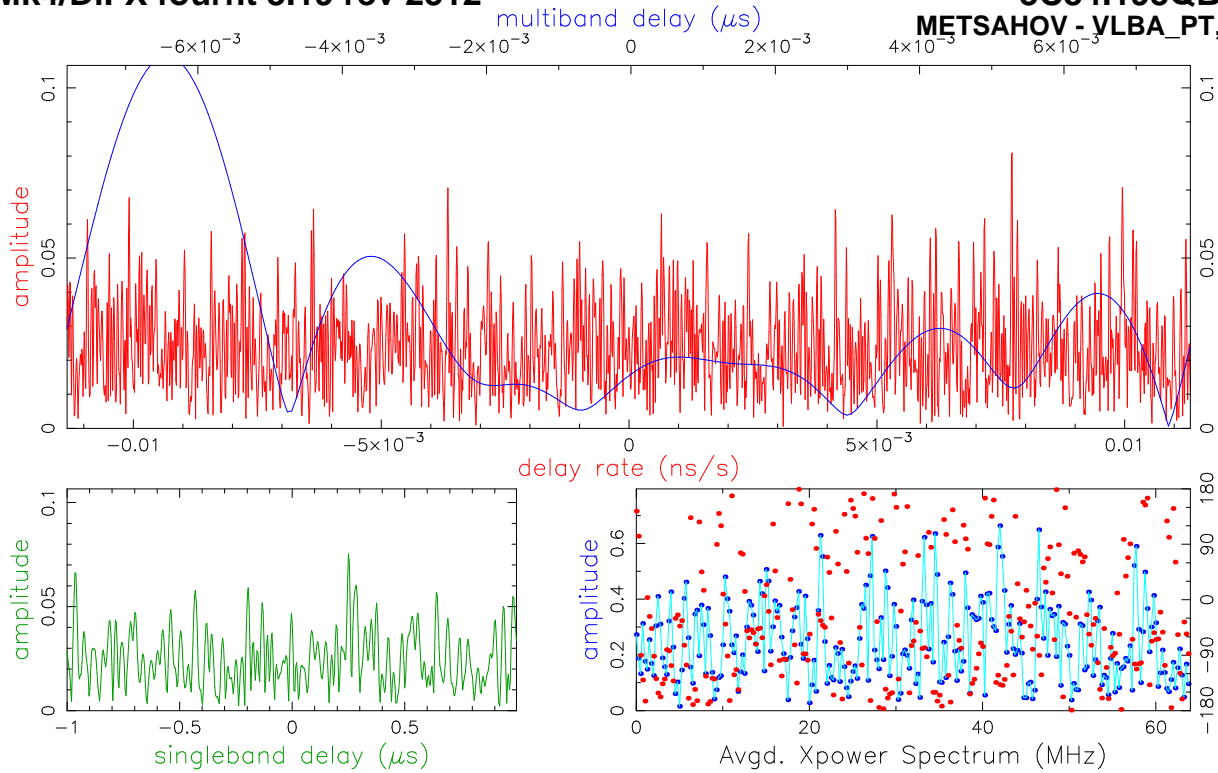


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-3.46626006761E+03	Apriori delay (usec)	-3.46614973215E+03	Resid mbdelay (usec)	-9.60468E-04	+/-	1.8E-04
Sband delay (usec)	-3.46625831090E+03	Apriori clock (usec)	-1.7418974E+01	Resid sbdelay (usec)	-1.08579E-01	+/-	1.4E-03
Phase delay (usec)	-3.46614973646E+03	Apriori clockrate (us/s)	-1.8799999E-07	Resid phdelay (usec)	-4.31616E-06	+/-	6.1E-07
Delay rate (us/s)	-1.29883806042E+00	Apriori rate (us/s)	-1.29884556011E+00	Resid rate (us/s)	7.49969E-06	+/-	2.9E-09
Total phase (deg)	-107.6	Apriori accel (us/s/s)	4.11435678840E-05	Resid phase (deg)	-133.8	+/-	18.9

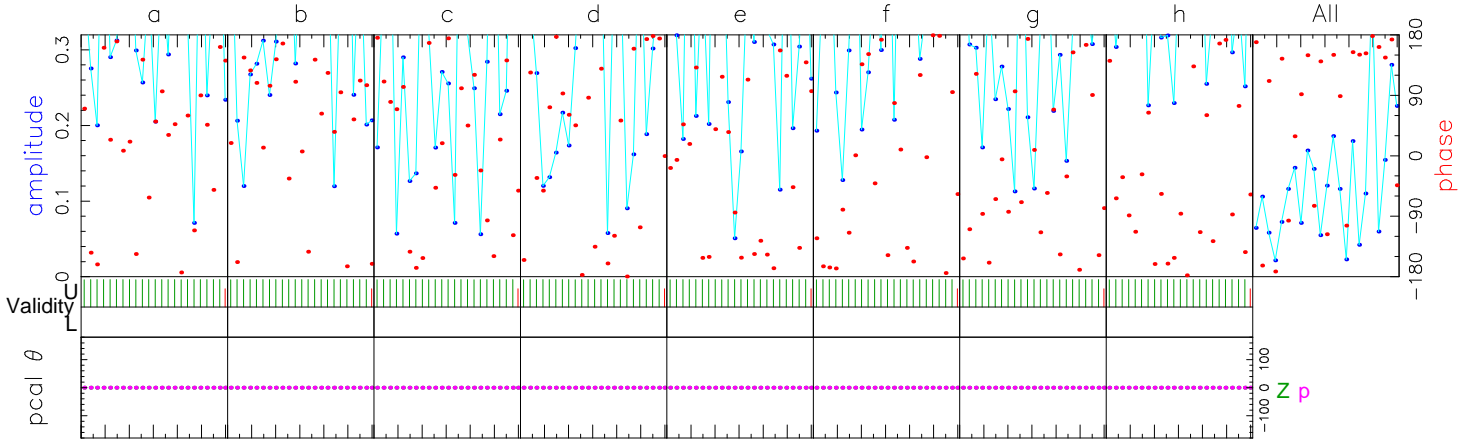
ph/seg (deg)	59.5	Theor.	45.4	Amplitude	0.141 +/- 0.023	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	72.5		79.3	Search (2048X32)	0.112	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	33.4		26.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	35.2		46.8	Inc. seg. avg.	0.137	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.139	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 9991.149 4818.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zp.W.247.193QBF



Fringe quality 0
 SNR 3.9
 Int time 358.667
 Amp 0.107
 Phase 167.0
 PFD 1.0e+00
 Delays (us)
 SBD 0.250946
 MBD 0.008301
 Fringe rate (Hz)
 0.858213
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122540
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

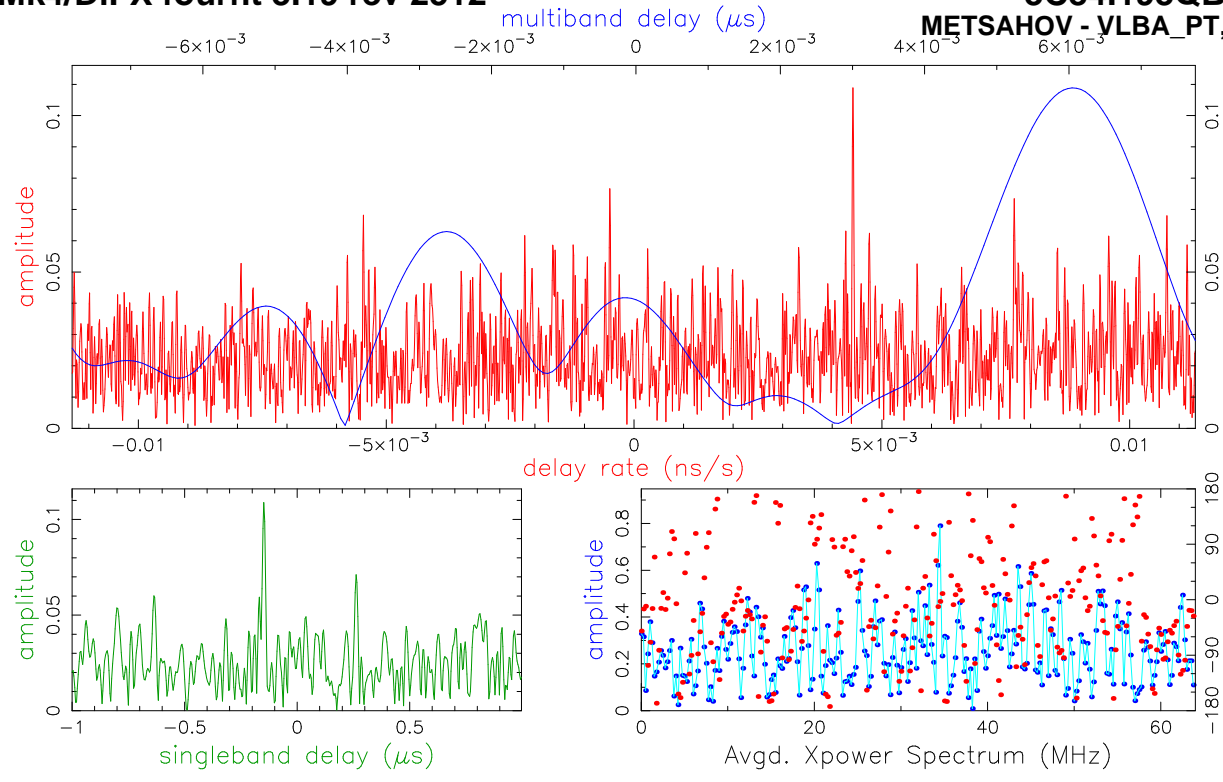


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
89.0	111.2	153.9	160.9	125.6	-163.9	-129.5	-127.8		Phase	167.0
0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2		Ampl.	0.1
101.0	503.0	410.5	95.7	50.9	394.4	410.9	279.5		Sbd box	321.2
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used	
Z 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -3.46589143136E+03 Apriori delay (usec) -3.46614973215E+03 Resid mbdelay (usec) 8.30078E-03 +/- 2.8E-04
 Sband delay (usec) -3.46589878565E+03 Apriori clock (usec) -1.7418974E+01 Resid sbdelay (usec) 2.50946E-01 +/- 2.2E-03
 Phase delay (usec) -3.46614972676E+03 Apriori clockrate (us/s) -1.8799999E-07 Resid phdelay (usec) 5.38647E-06 +/- 9.4E-07
 Delay rate (us/s) -1.29883559711E+00 Apriori rate (us/s) -1.29884556011E+00 Resid rate (us/s) 9.96300E-06 +/- 4.5E-09
 Total phase (deg) -166.7 Apriori accel (us/s/s) 4.11435678840E-05 Resid phase (deg) 167.0 +/- 29.2

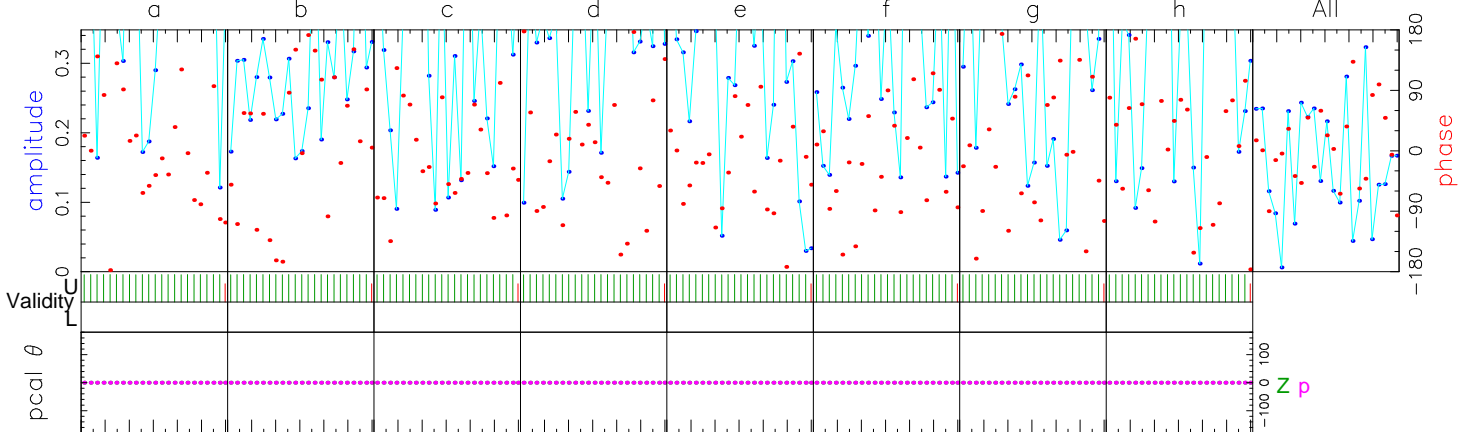
RMS Theor. Amplitude 0.107 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.1 70.0 Search (2048X32) 0.107 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 128.9 122.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 58.1 41.3 Inc. seg. avg. 0.101 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 62.6 72.0 Inc. frq. avg. 0.127 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 9991.149 4818.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zp.W.254.193QBF



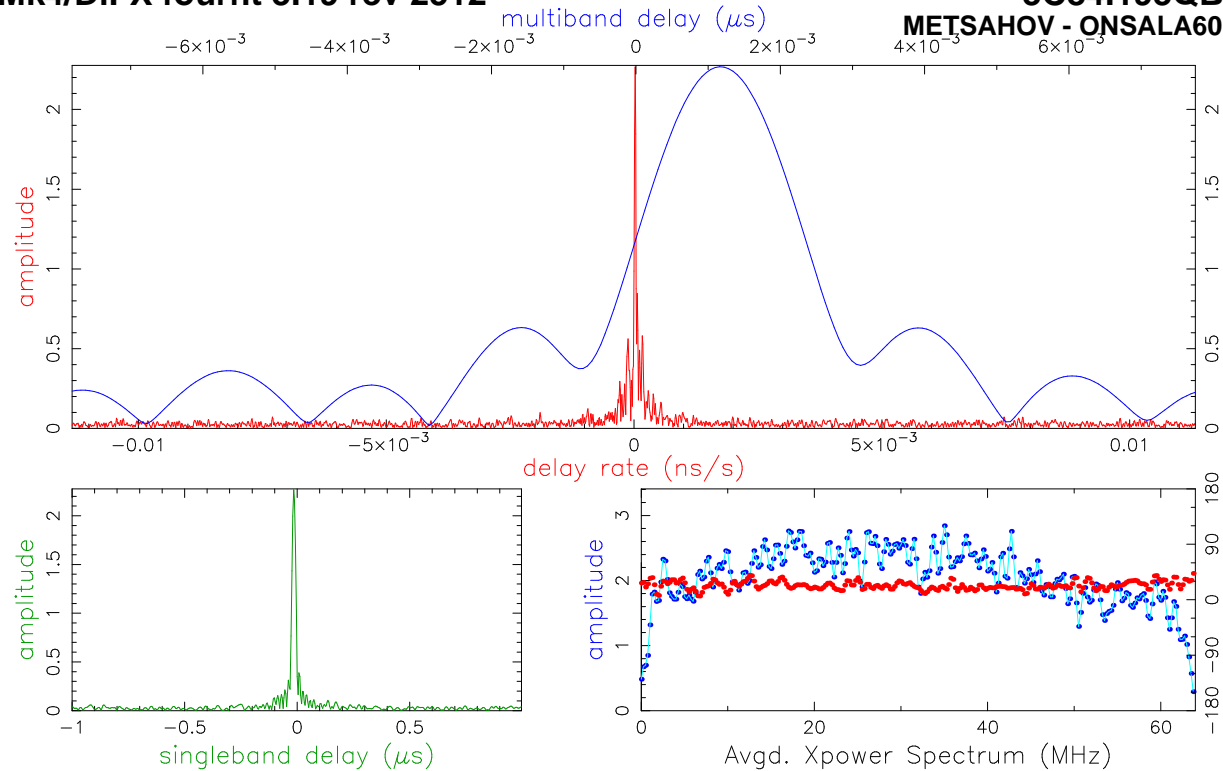
Fringe quality 0
 SNR 5.6
 Int time 358.667
 Amp 0.116
 Phase 1.3
 PFD 9.8e-01
 Delays (us)
 SBD -0.148124
 MBD 0.006070
 Fringe rate (Hz)
 0.380644
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122543
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



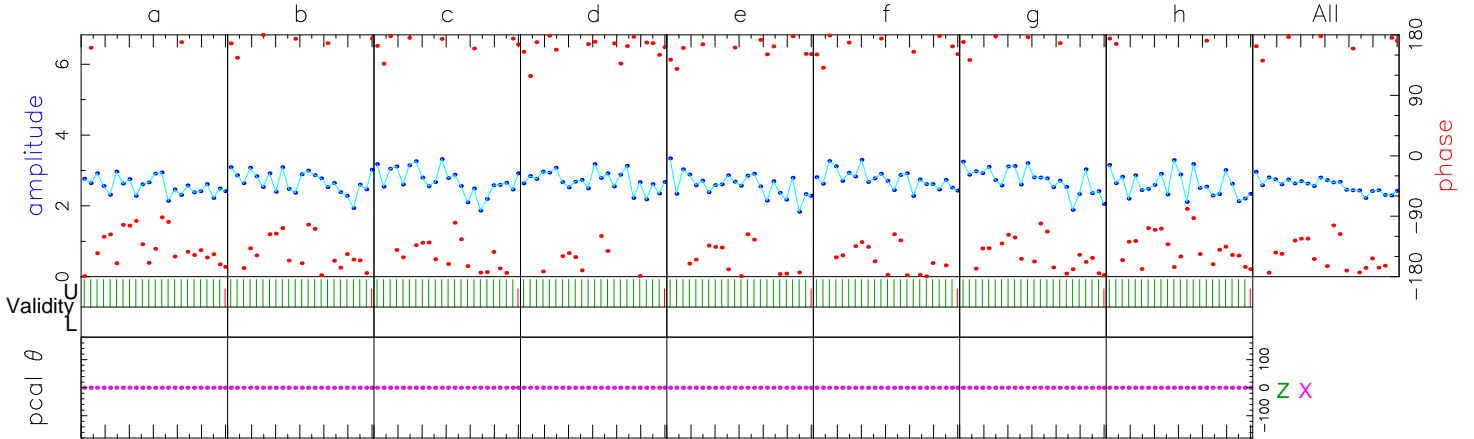
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.46629991264E+03								6.06950E-03	+/- 1.9E-04
Sband delay (usec)	-3.46629785640E+03								-1.48124E-01	+/- 1.5E-03
Phase delay (usec)	-3.46614973210E+03								4.32989E-08	+/- 6.5E-07
Delay rate (us/s)	-1.29884114121E+00								4.41890E-06	+/- 3.2E-09
Total phase (deg)			-332.4						1.3	+/- 20.3
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 56.8 48.7 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.0 85.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.1 28.7 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.7 50.1 Inc. frq. avg. 0.117 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 9991.149 4818.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zp.W.260.193QBF



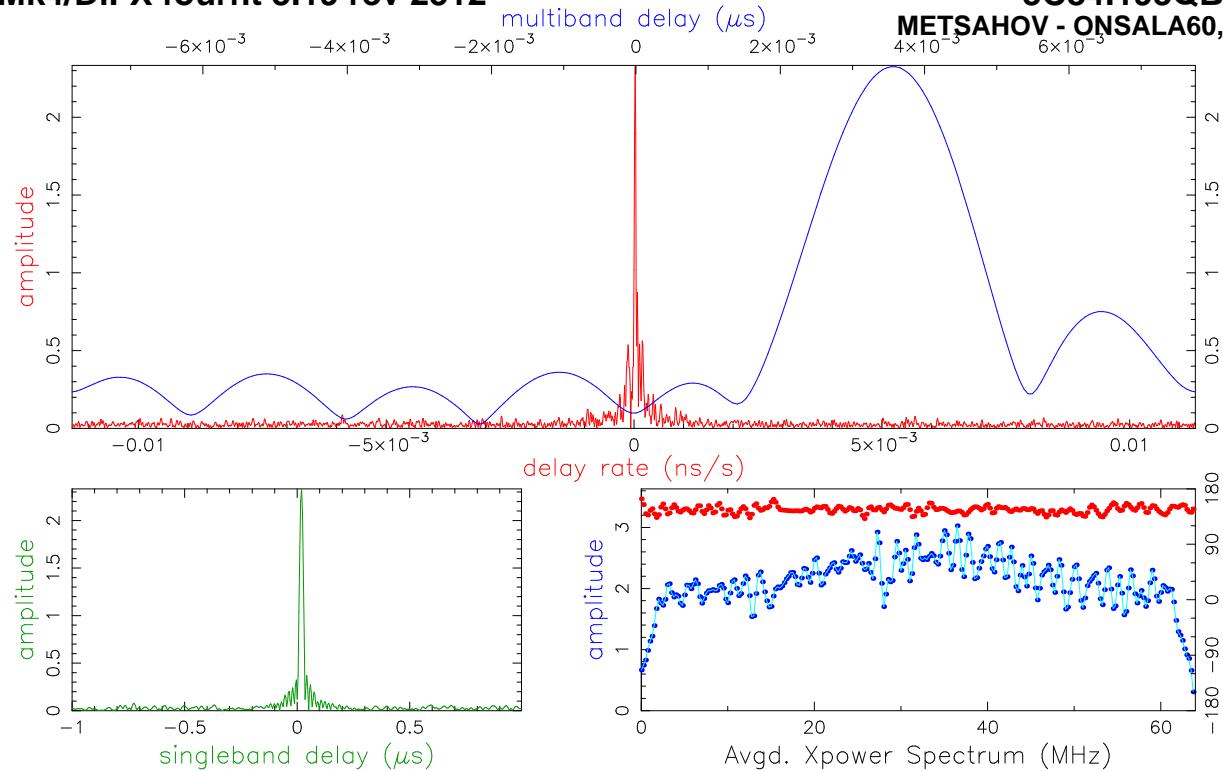
Fringe quality 6
 SNR 118.0
 Int time 359.366
 Amp 2.276
 Phase -161.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.014783
 MBD 0.001190
 Fringe rate (Hz)
 0.002240
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122535
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-140.6	-155.9	-163.4	176.3	-176.6	-169.2	-156.9	-143.9	Phase	-161.5
	2.3	2.3	2.4	2.4	2.2	2.4	2.4	2.3	Ampl.	2.3
	253.1	252.9	253.3	253.0	253.6	253.3	253.6	253.6	Sbd box	253.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.57713284130E+03					-1.57711840609E+03			Resid mbdelay (usec)	1.18979E-03 +/- 9.2E-06
Sband delay (usec)	-1.57713318934E+03					-4.0942654E+01			Resid sbdelay (usec)	-1.47833E-02 +/- 7.3E-05
Phase delay (usec)	-1.57711841130E+03					-5.1200000E-07			Resid phdelay (usec)	-5.20688E-06 +/- 3.1E-08
Delay rate (us/s)	1.85980940121E-02					1.85980680031E-02			Resid rate (us/s)	2.60090E-08 +/- 1.5E-10
Total phase (deg)			-341.7			1.00852054419E-05			Resid phase (deg)	-161.5 +/- 1.0
	RMS	Theor.	Amplitude	2.276 +/- 0.019					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	28.7	2.3	Search (2048X32)	2.181					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	15.6	4.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	16.2	1.4	Inc. seg. avg.	2.579					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	4.2	2.4	Inc. frq. avg.	2.336					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZX..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZX.W.242.193QBF

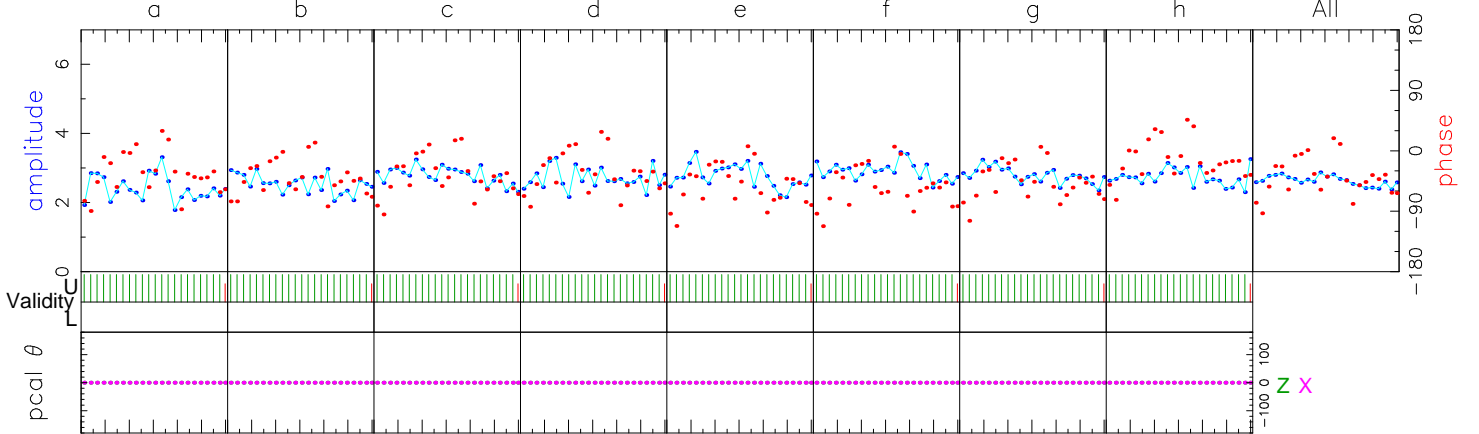


Fringe quality 6

SNR 120.9
 Int time 359.366
 Amp 2.333
 Phase -38.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.018761
 MBD 0.003545
 Fringe rate (Hz) 0.002237
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

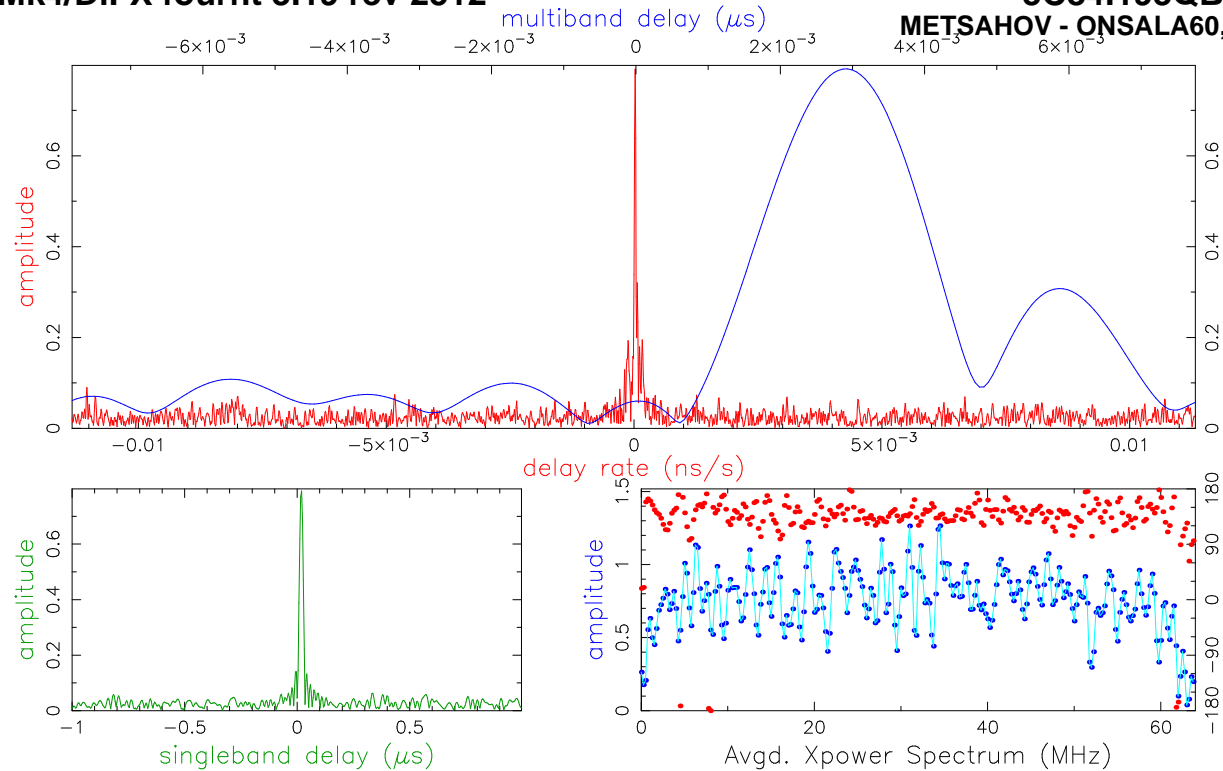
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122538
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-32.3	-40.9	-36.1	-32.9	-51.2	-53.9	-46.3	-12.8	Phase	-38.6
	2.1	2.3	2.4	2.4	2.4	2.6	2.5	2.4	Ampl.	2.4
	261.4	261.6	261.8	261.9	261.6	261.9	262.2	262.2	Sbd box	261.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.57709923652E+03		Apriori delay (usec)		-1.57711840609E+03		Resid mbdelay (usec)		3.54457E-03	+/- 9.0E-06
Sband delay (usec)	-1.57709964484E+03		Apriori clock (usec)		-4.0942654E+01		Resid sbdelay (usec)		1.87612E-02	+/- 7.1E-05
Phase delay (usec)	-1.57711840734E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-1.24601E-06	+/- 3.1E-08
Delay rate (us/s)	1.85980939745E-02		Apriori rate (us/s)		1.85980680031E-02		Resid rate (us/s)		2.59715E-08	+/- 1.5E-10
Total phase (deg)			Apriori accel (us/s/s)		1.00852054419E-05		Resid phase (deg)		-38.6	+/- 0.9

ph/seg (deg) 28.3 2.3 Theor. Amplitude 2.333 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 14.2 4.0 Search (2048X32) 2.252 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.1 1.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.3 2.3 Inc. seg. avg. 2.632 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZX..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZX.W.250.193QBF simultaneous interpolator

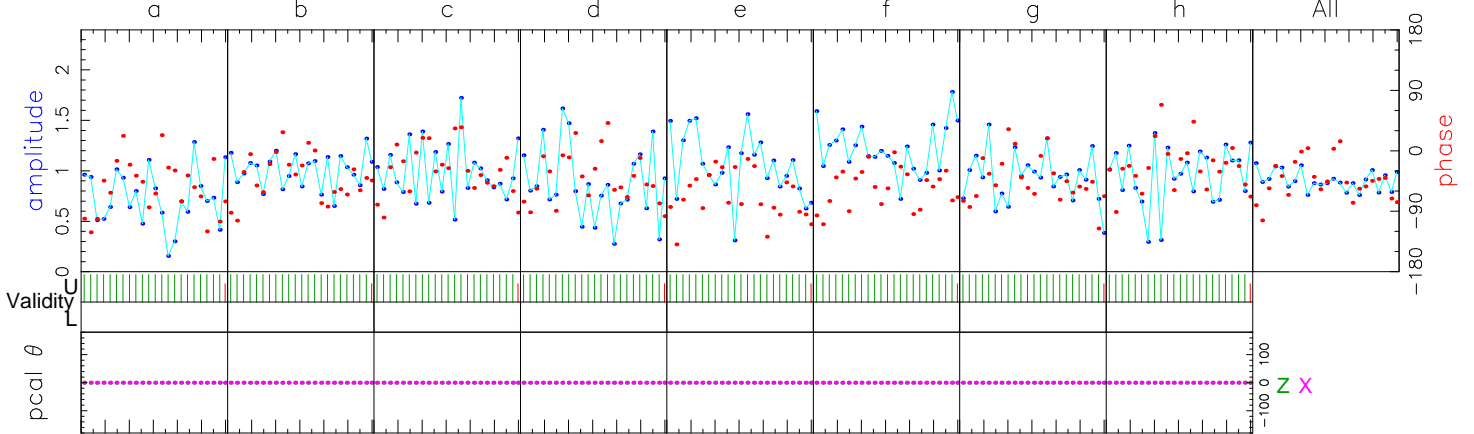


Fringe quality 7

SNR 41.4
 Int time 359.366
 Amp 0.799
 Phase -43.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.018205
 MBD 0.002874
 Fringe rate (Hz)
 0.002324
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Yr:day 16383
 Start 2020:118
 Stop 2020:119
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122542
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.2	-39.2	-28.2	-35.8	-64.4	-55.1	-41.8	-24.9	Phase	-43.7
	0.6	0.8	0.8	0.7	0.9	1.1	0.8	0.8	Ampl.	0.8
	261.4	261.5	261.7	261.4	261.7	261.9	262.0	262.0	Sbd box	261.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.57709990702E+03		Apriori delay (usec)		-1.57711840609E+03		Resid mbdelay (usec)		2.87407E-03	+/- 2.6E-05
Sband delay (usec)	-1.57710020159E+03		Apriori clock (usec)		-4.0942654E+01		Resid sbdelay (usec)		1.82045E-02	+/- 2.1E-04
Phase delay (usec)	-1.57711840750E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-1.40788E-06	+/- 8.9E-08
Delay rate (us/s)	1.85980949849E-02		Apriori rate (us/s)		1.85980680031E-02		Resid rate (us/s)		2.69819E-08	+/- 4.3E-10
Total phase (deg)			Apriori accel (us/s/s)		1.00852054419E-05		Resid phase (deg)		-43.7	+/- 2.8

ph/seg (deg) 29.3 6.6
 amp/seg (%) 17.5 11.6
 ph/frq (deg) 15.4 3.9
 amp/frq (%) 17.4 6.8

RMS Theor. Amplitude 0.799 +/- 0.019
 Search (2048X32) 0.762
 Interp. 0.000
 Inc. seg. avg. 0.897
 Inc. frq. avg. 0.811

Group delay (usec)(sbd) -1.57711840609E+03
 Sband delay (usec) -4.0942654E+01
 Phase delay (usec) -5.1200000E-07
 Delay rate (us/s) 1.85980680031E-02
 Total phase (deg) 1.00852054419E-05

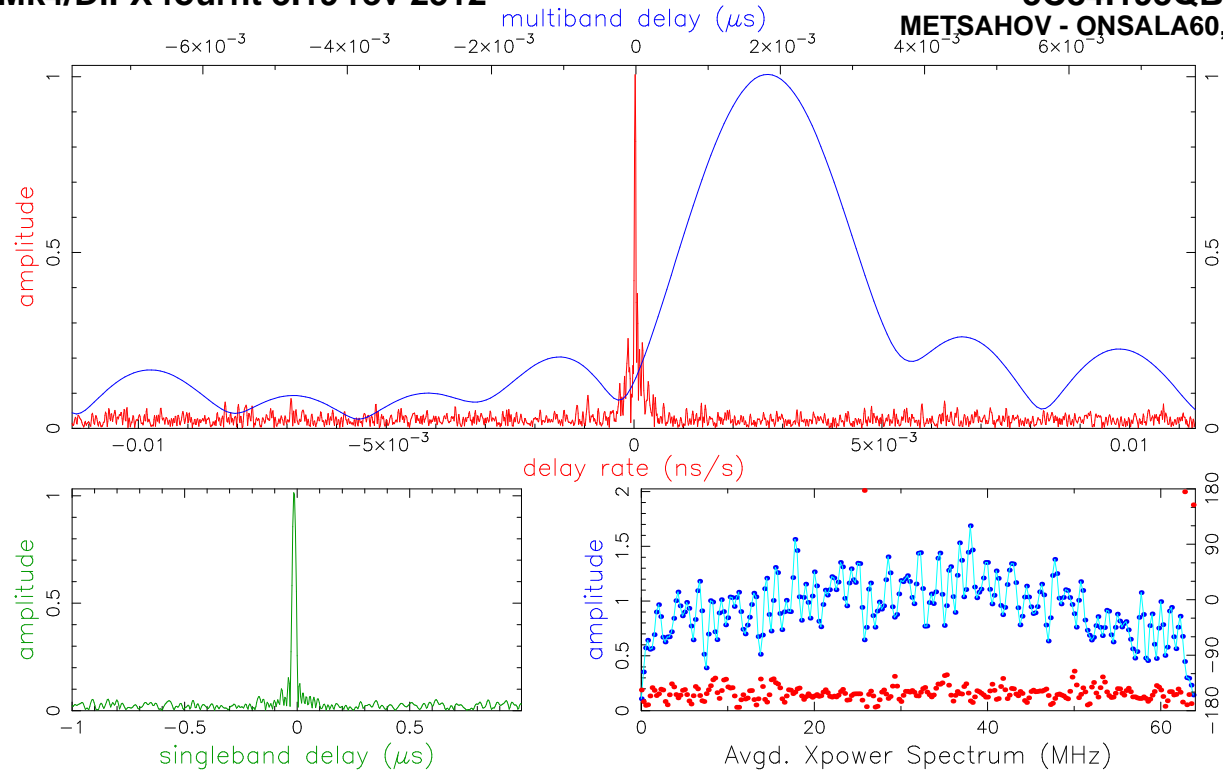
Apriori delay (usec) -1.57711840609E+03
 Apriori clock (usec) -4.0942654E+01
 Apriori clockrate (us/s) -5.1200000E-07
 Apriori rate (us/s) 1.85980680031E-02
 Apriori accel (us/s/s) 1.00852054419E-05

Resid mbdelay (usec) 2.87407E-03
 Resid sbdelay (usec) 1.82045E-02
 Resid phdelay (usec) -1.40788E-06
 Resid rate (us/s) 2.69819E-08
 Resid phase (deg) -43.7

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MISamp/s): 128
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 simultaneous interpolator

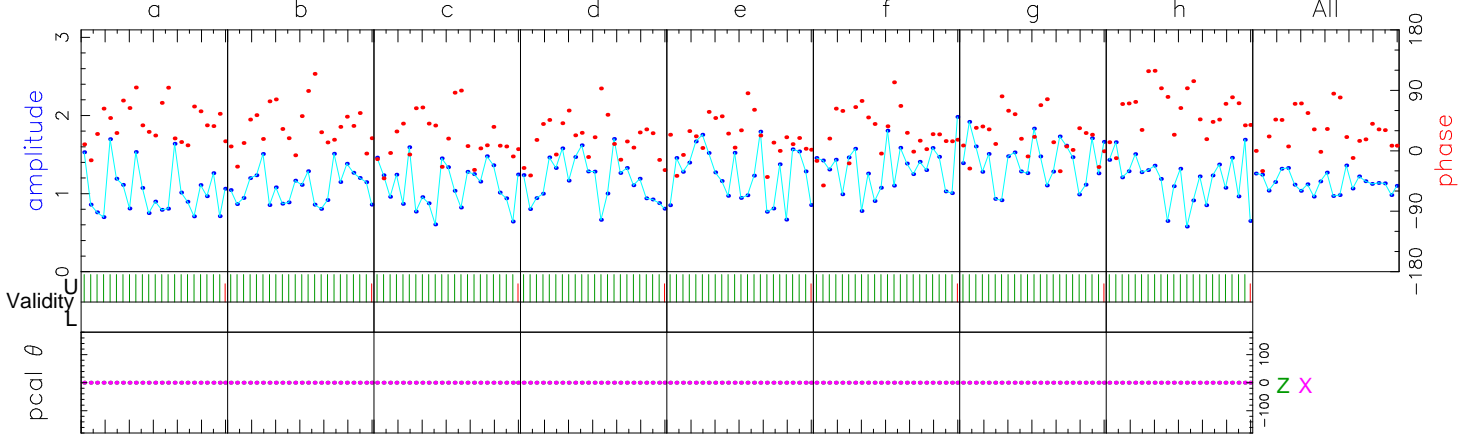


Fringe quality 6

SNR 53.5
 Int time 359.366
 Amp 1.032
 Phase 28.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.013863
 MBD 0.001781
 Fringe rate (Hz)
 0.002247
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122545
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



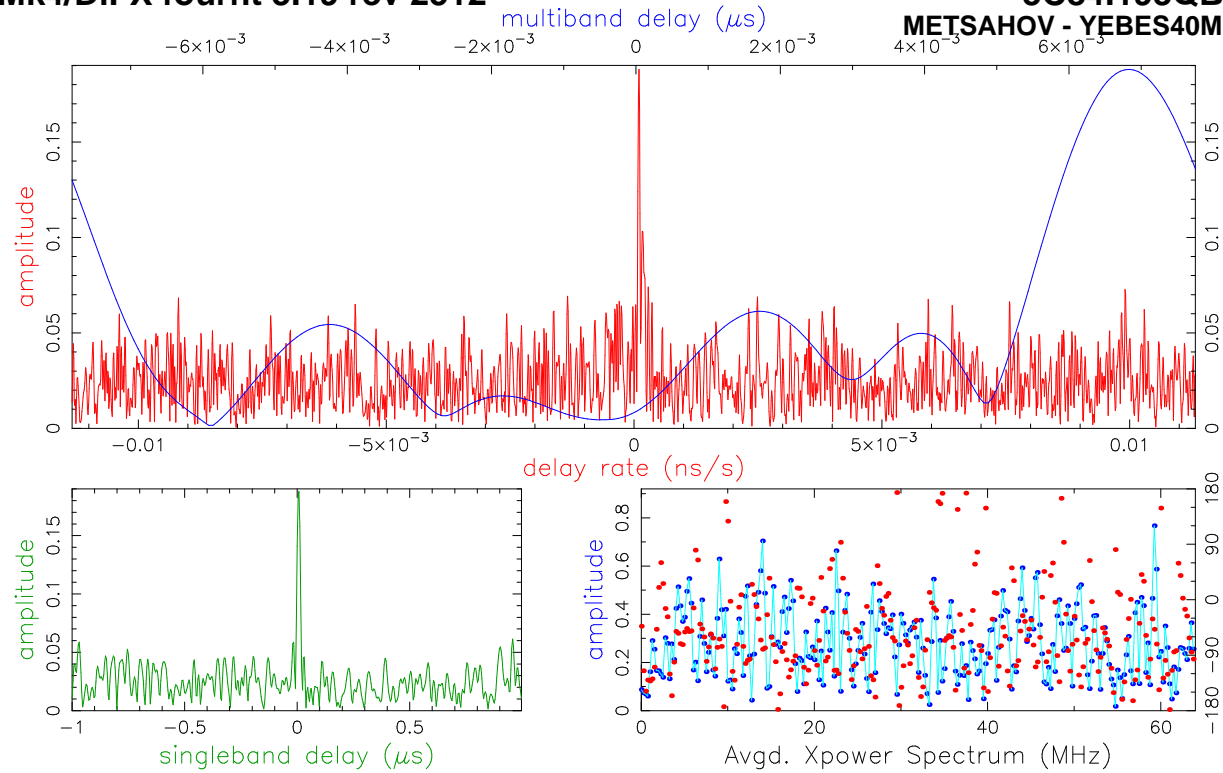
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.57713224964E+03	Apriori delay (usec)	-1.57711840609E+03	Resid mbdelay (usec)	1.78145E-03	+/-	2.0E-05
Sband delay (usec)	-1.57713226909E+03	Apriori clock (usec)	-4.0942654E+01	Resid sbdelay (usec)	-1.38630E-02	+/-	1.6E-04
Phase delay (usec)	-1.57711840518E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	9.09301E-07	+/-	6.9E-08
Delay rate (us/s)	1.85980940879E-02	Apriori rate (us/s)	1.85980680031E-02	Resid rate (us/s)	2.60848E-08	+/-	3.3E-10
Total phase (deg)	-152.1	Apriori accel (us/s/s)	1.00852054419E-05	Resid phase (deg)	28.2	+/-	2.1

ph/seg (deg)	29.1	Theor.	5.1	Amplitude	1.032 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	15.4	Search (2048X32)	0.974	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.5	Inc. seg. avg.	1.136	Inc. seg. avg.	1.136	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	9.5	Inc. frq. avg.	1.035	Inc. frq. avg.	1.035	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

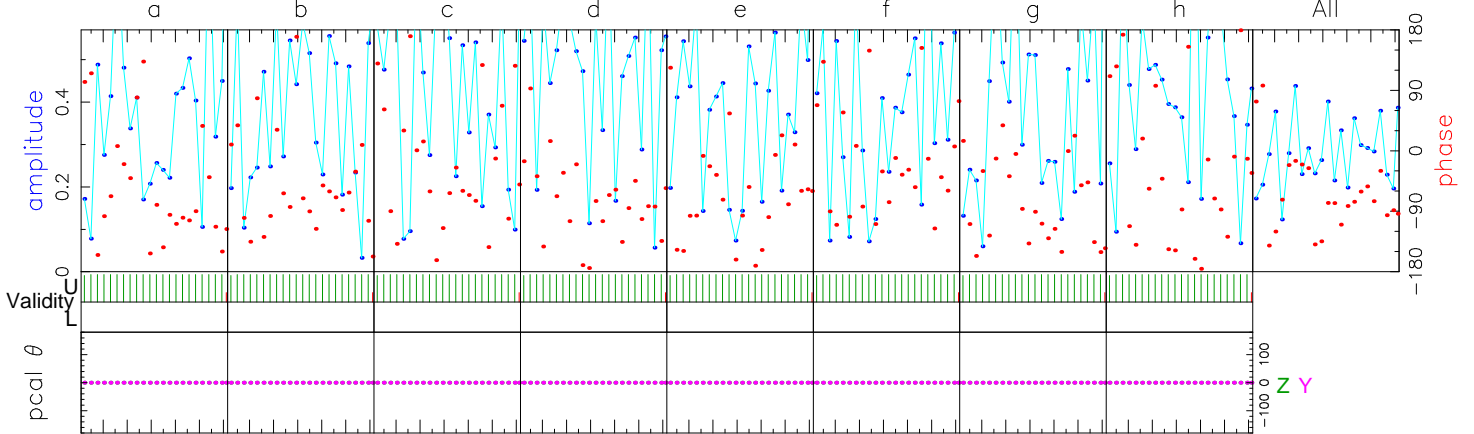
Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZX..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZX.W.262.193QBF



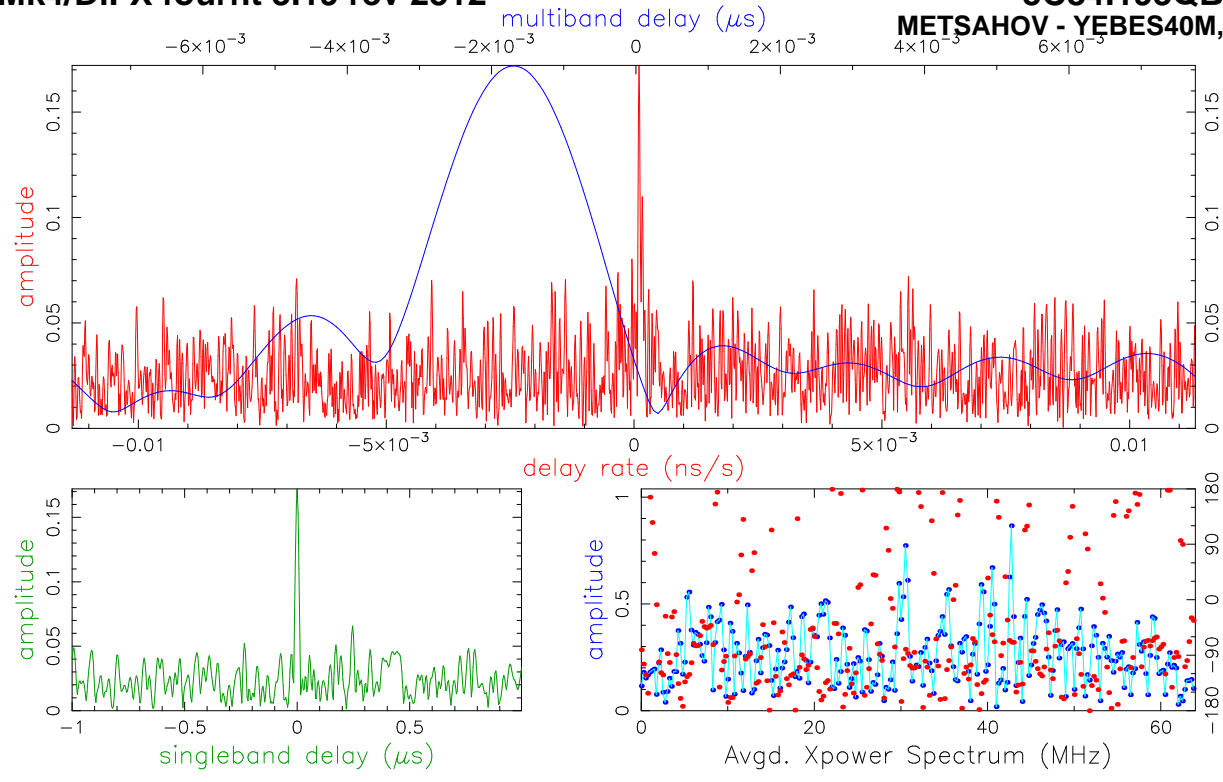
Fringe quality 9
 SNR 9.8
 Int time 353.754
 Amp 0.190
 Phase -72.1
 PFD 5.9×10^{-14}
 Delays (us)
 SBD 0.006506
 MBD 0.006802
 Fringe rate (Hz) 0.008874
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122536
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



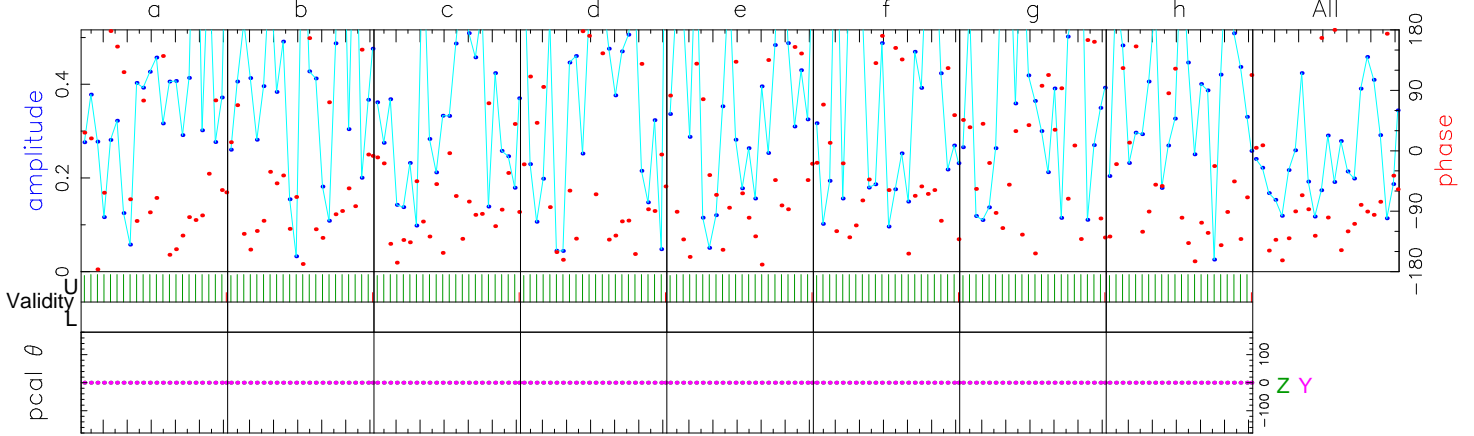
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.5	-73.2	-71.2	-76.9	-73.0	-26.0	-70.4	-105.0	Phase	-72.1
	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
	258.9	258.9	389.9	258.8	166.1	258.0	259.2	179.9	Sbd box	258.7
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.81027781602E+03		Apriori delay (usec)		-2.81028461776E+03		Resid mbdelay (usec)		6.80174E-03	+/- 1.1E-04
Sband delay (usec)	-2.81027811176E+03		Apriori clock (usec)		-1.2106056E+01		Resid sbdelay (usec)		6.50600E-03	+/- 8.8E-04
Phase delay (usec)	-2.81028462008E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-2.32601E-06	+/- 3.8E-07
Delay rate (us/s)	1.58443474055E-01		Apriori rate (us/s)		1.58443371037E-01		Resid rate (us/s)		1.03019E-07	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		3.12372999447E-05		Resid phase (deg)		-72.1	+/- 11.7

ph/seg (deg) 59.9 28.1 Search (2048X32) 0.187 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.3 49.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.7 16.6 Inc. seg. avg. 0.248 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.7 28.9 Inc. frq. avg. 0.191 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1177.140 3632.975 ion window (TEC) 0.00 0.00
 simultaneous interpolator



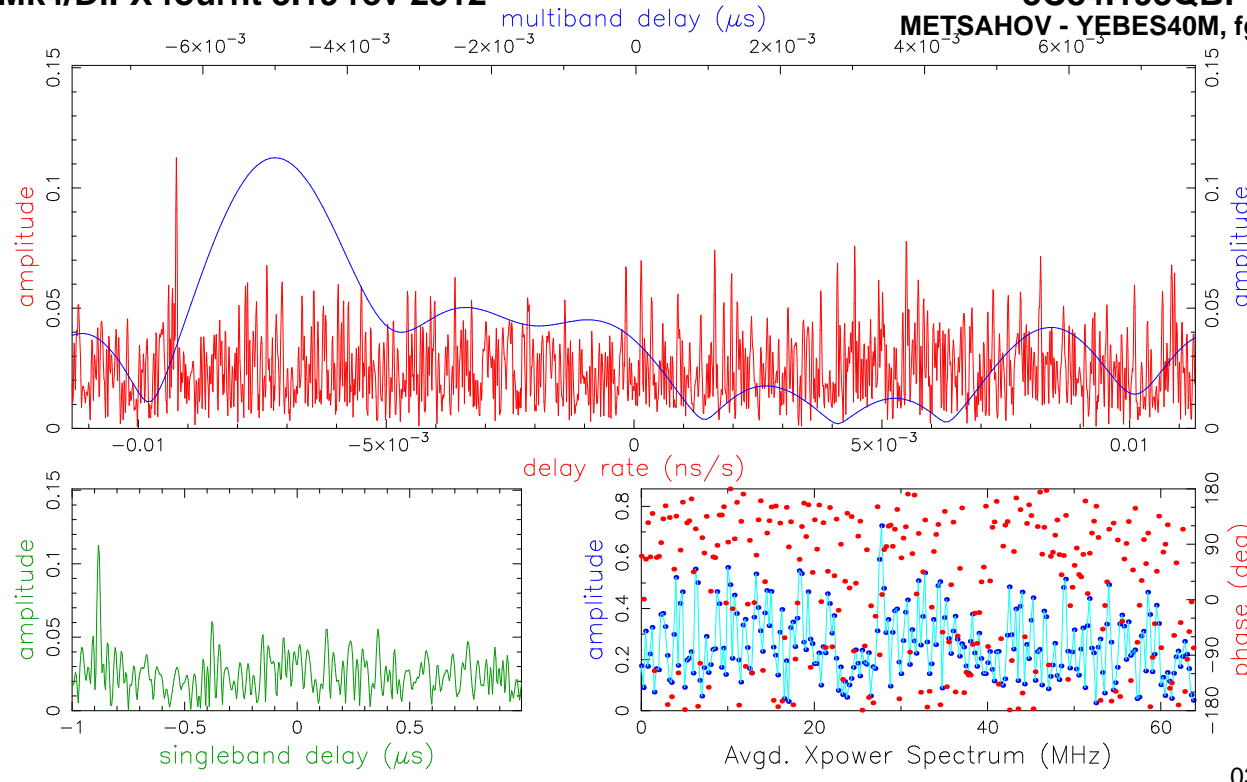
Fringe quality 9
 SNR 8.9
 Int time 353.754
 Amp 0.172
 Phase -98.4
 PFD 3.2e-10
 Delays (us)
 SBD -0.000494
 MBD -0.001709
 Fringe rate (Hz) 0.008343
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122539
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-99.7	-92.8	-91.4	-115.3	-121.1	-91.7	-66.7	-101.5	Phase	-98.4
	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	358.9	256.1	256.0	478.2	400.0	257.1	362.8	257.9	Sbd box	256.9
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.81028632686E+03		Apriori delay (usec)		-2.81028461776E+03		Resid mbdelay (usec)		-1.70910E-03	+/- 1.2E-04
Sband delay (usec)	-2.81028511176E+03		Apriori clock (usec)		-1.2106056E+01		Resid sbdelay (usec)		-4.94000E-04	+/- 9.7E-04
Phase delay (usec)	-2.81028462093E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-3.17338E-06	+/- 4.2E-07
Delay rate (us/s)	1.58443467894E-01		Apriori rate (us/s)		1.58443371037E-01		Resid rate (us/s)		9.68570E-08	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.12372999447E-05		Resid phase (deg)		-98.4	+/- 12.9

ph/seg (deg) 53.5 31.0 Search (2048X32) 0.166 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.6 54.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.0 18.3 Inc. seg. avg. 0.212 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.9 31.9 Inc. frq. avg. 0.168 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1177.140 3632.975 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZY..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZY.W.251.193QBF simultaneous interpolator

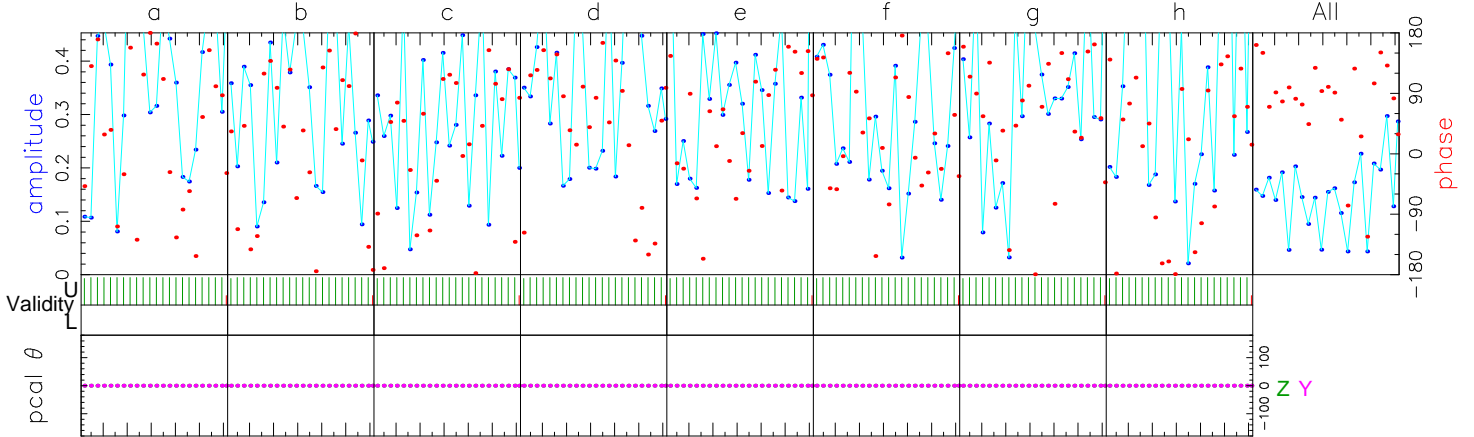


Fringe quality 0

SNR 5.8
 Int time 353.754
 Amp 0.151
 Phase 97.3
 PFD 7.9e-01
 Delays (us)
 SBD -0.882101
 MBD -0.004984
 Fringe rate (Hz)
 -0.796467
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

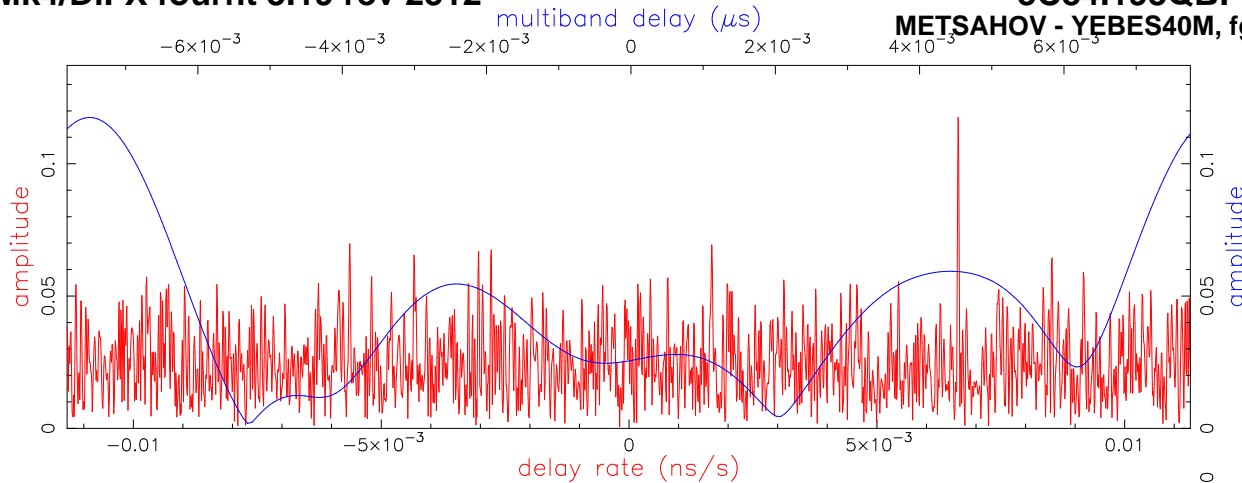
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122543
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	135.4	94.7	81.4	104.9	64.5	44.6	101.7	118.4	Phase	97.3
	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.3	Ampl.	0.1
	259.2	498.8	492.9	327.2	269.4	429.7	30.4	33.0	Sbd box	31.2
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.81116460188E+03		Apriori delay (usec)		-2.81028461776E+03		Resid mbdelay (usec)		-4.98412E-03	+/- 1.9E-04
Sband delay (usec)	-2.81116671826E+03		Apriori clock (usec)		-1.2106056E+01		Resid sbdelay (usec)		-8.82101E-01	+/- 1.5E-03
Phase delay (usec)	-2.81028461462E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		3.13914E-06	+/- 6.4E-07
Delay rate (us/s)	1.58434124839E-01		Apriori rate (us/s)		1.58443371037E-01		Resid rate (us/s)		-9.24620E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		3.12372999447E-05		Resid phase (deg)		97.3	+/- 19.7

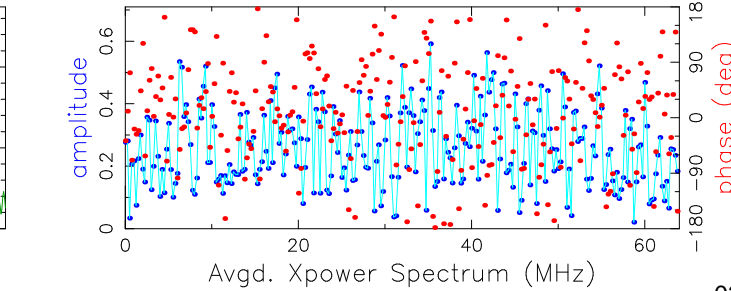
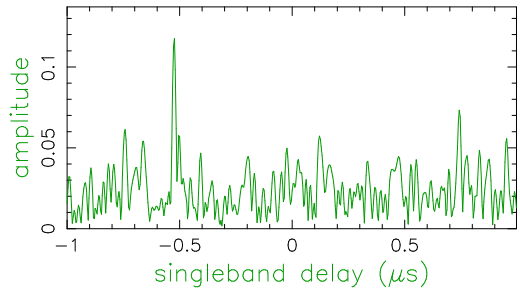
ph/seg (deg) 58.6 47.3 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.3 82.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.8 27.9 Inc. seg. avg. 0.149 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.2 48.7 Inc. frq. avg. 0.149 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1177.140 3632.975 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZY..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZY.W.258.193QBF



Fringe quality 0

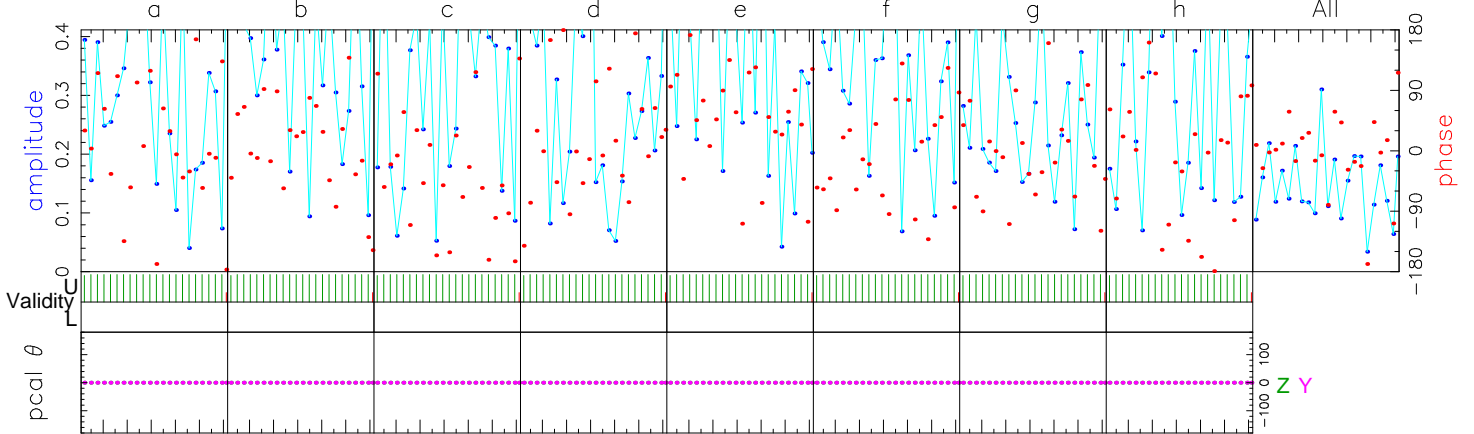
SNR 6.1
 Int time 353.754
 Amp 0.137
 Phase 1.1
 PFD 2.4e-01
 Delays (us)
 SBD -0.524591
 MBD 0.008106
 Fringe rate (Hz) 0.572621
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122546
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



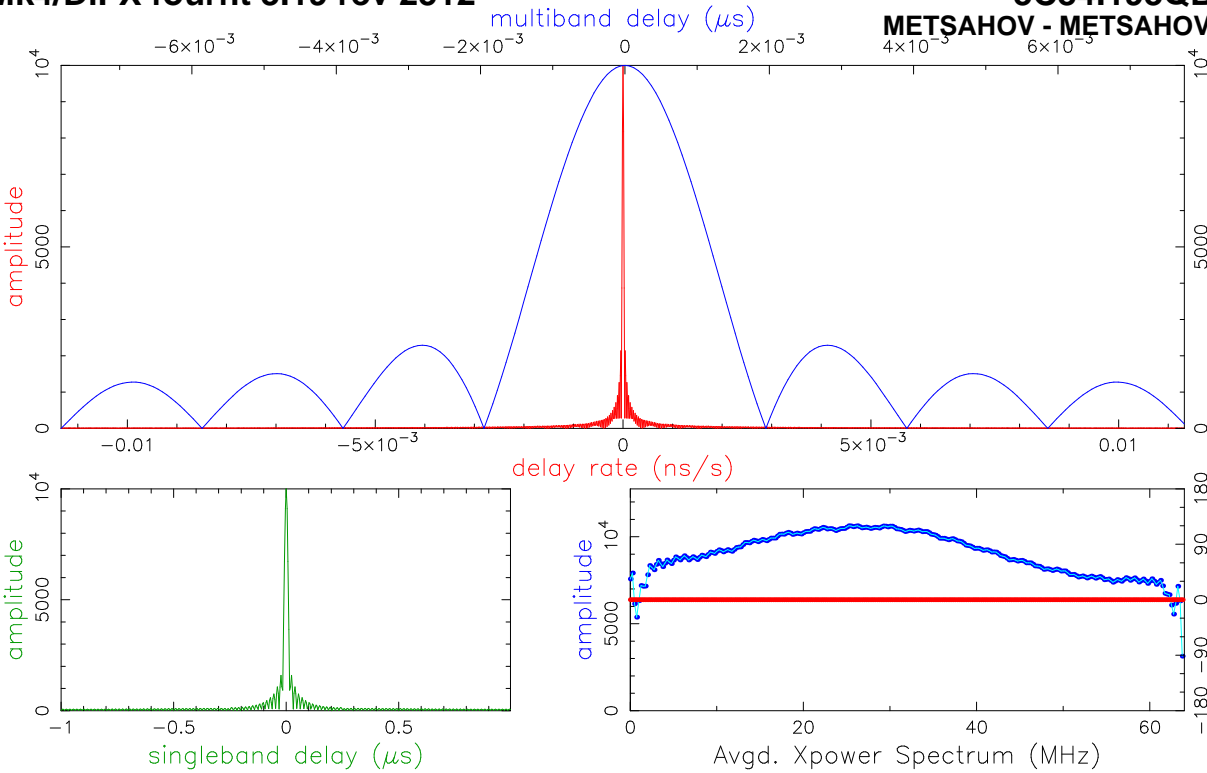
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	31.7	9.0	-55.0	-17.6	59.6	-18.1	-17.4	39.5	Phase	1.1
	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.1	Ampl.	0.1
	449.0	123.4	86.8	41.3	381.6	62.4	374.4	431.8	Sbd box	122.7
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.81080776154E+03	Apriori delay (usec)	-2.81028461776E+03	Resid mbdelay (usec)	8.10622E-03	+/-	1.8E-04
Sband delay (usec)	-2.81080920876E+03	Apriori clock (usec)	-1.2106056E+01	Resid sbdelay (usec)	-5.24591E-01	+/-	1.4E-03
Phase delay (usec)	-2.81028461772E+03	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	3.54632E-08	+/-	6.1E-07
Delay rate (us/s)	1.58450018597E-01	Apriori rate (us/s)	1.58443371037E-01	Resid rate (us/s)	6.64756E-06	+/-	3.0E-09
Total phase (deg)	-349.4	Apriori accel (us/s/s)	3.12372999447E-05	Resid phase (deg)	1.1	+/-	18.8

ph/seg (deg)	54.4	Theor.	45.0	Amplitude	0.137 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	55.7	Search (2048X32)	0.112	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	41.0	Inc. seg. avg.	0.129	Inc. frq. avg.	0.148	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	37.3	Inc. frq. avg.	0.148			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

Z: az 288.5 el 38.5 pa 39.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1177.140 3632.975 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZY..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZY.W.264.193QBF

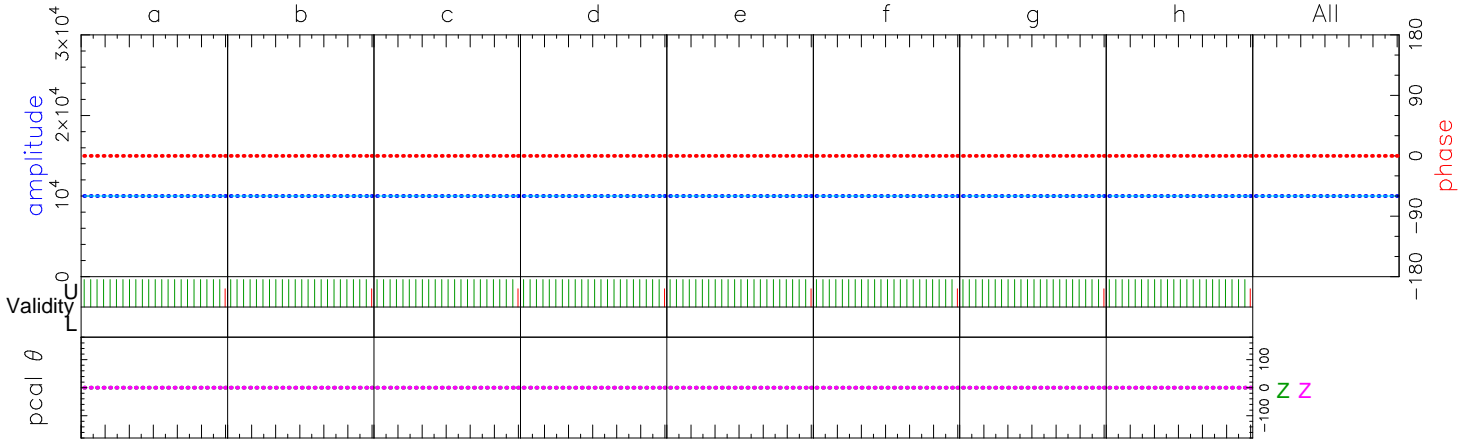


Fringe quality 9

SNR 518432.7
 Int time 359.409
 Amp 10000.002
 Phase -0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122536
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



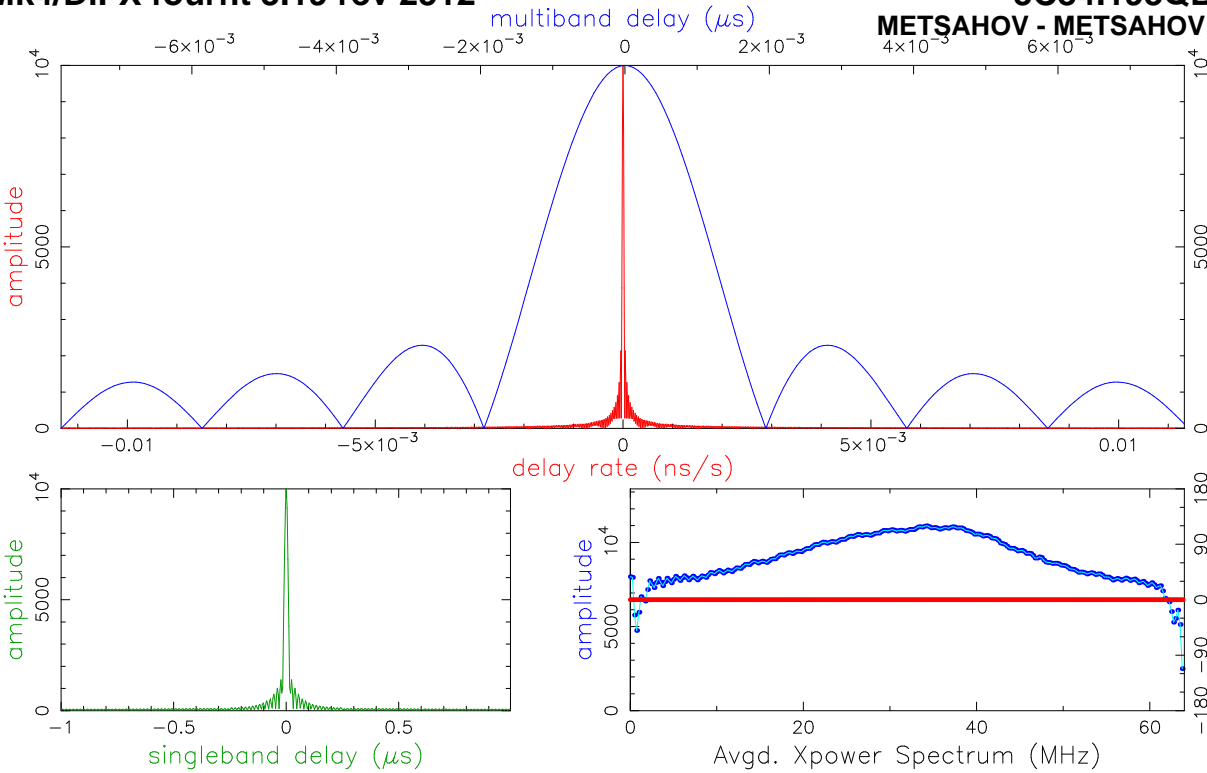
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-1.11662405717E-19	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.11662E-19	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	0.0	Theor.	0.0	Amplitude	10000.002 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0		0.0		0.0	Search (2048X32)	10000.003	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0		0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0		0.0		0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	10000.003	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZZ.W.245.193QBF

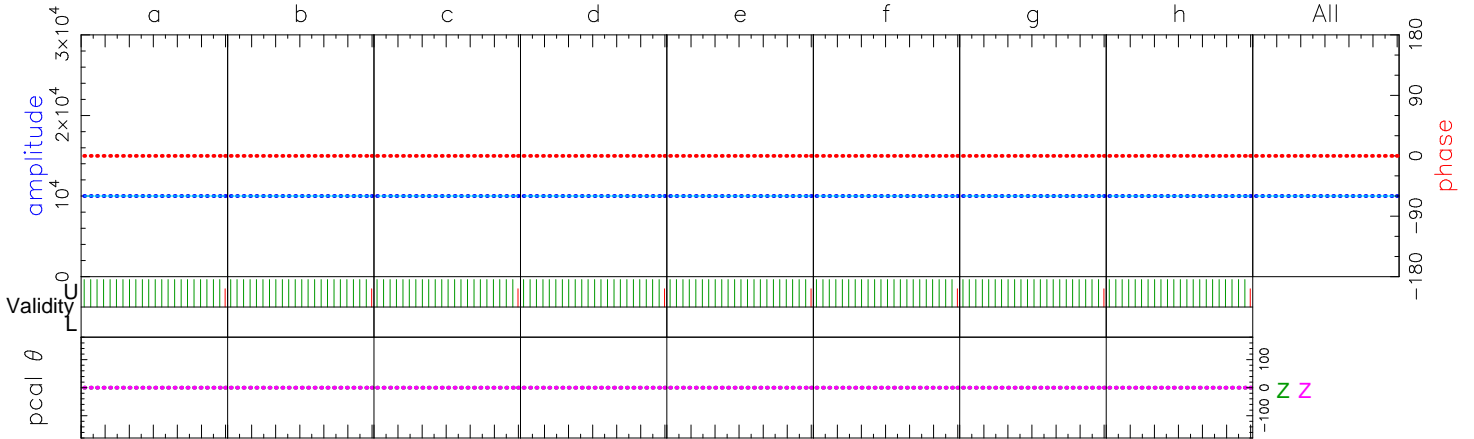


Fringe quality 9

SNR 518432.7
 Int time 359.409
 Amp 10000.002
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122539
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



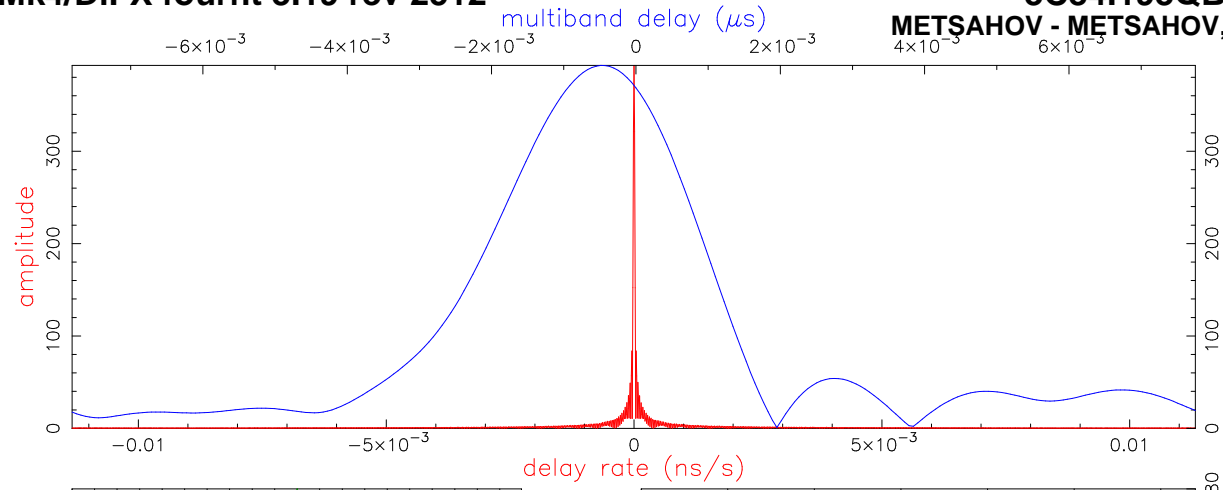
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	Ampl.	10000.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.1E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08
 Phase delay (usec) 8.69132882306E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 8.69133E-20 +/- 7.1E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.4E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.002 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

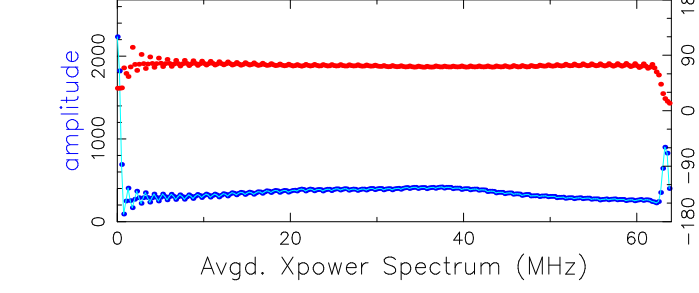
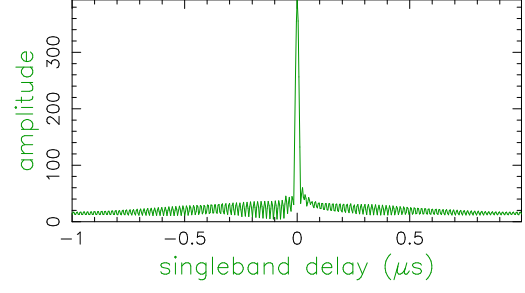
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZZ.W.252.193QBF



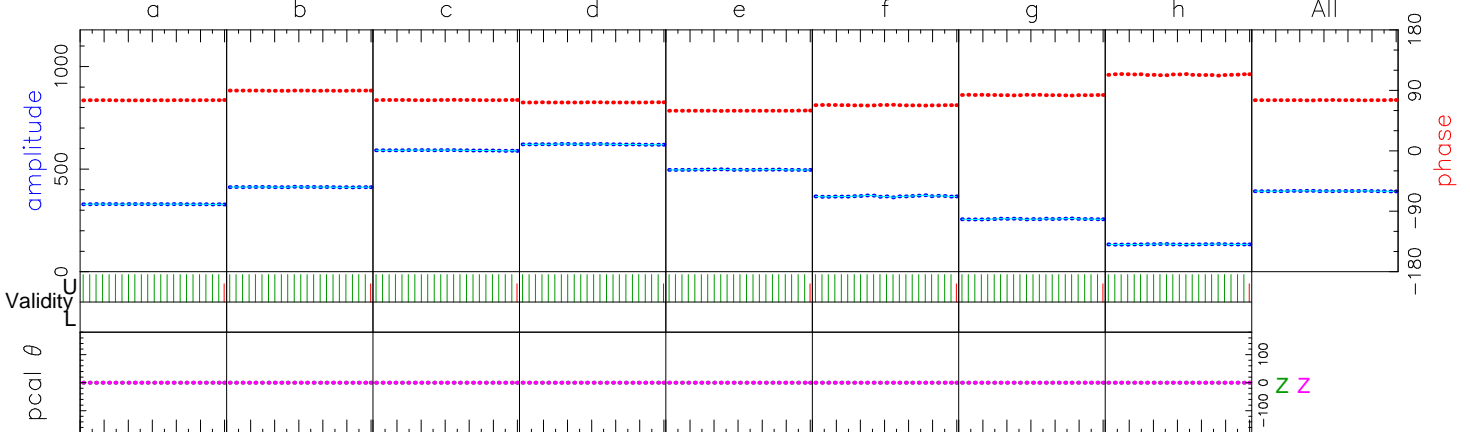
Fringe quality 7

SNR 20370.9
 Int time 359.409
 Amp 392.932
 Phase 75.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000019
 MBD -0.000465
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122542
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



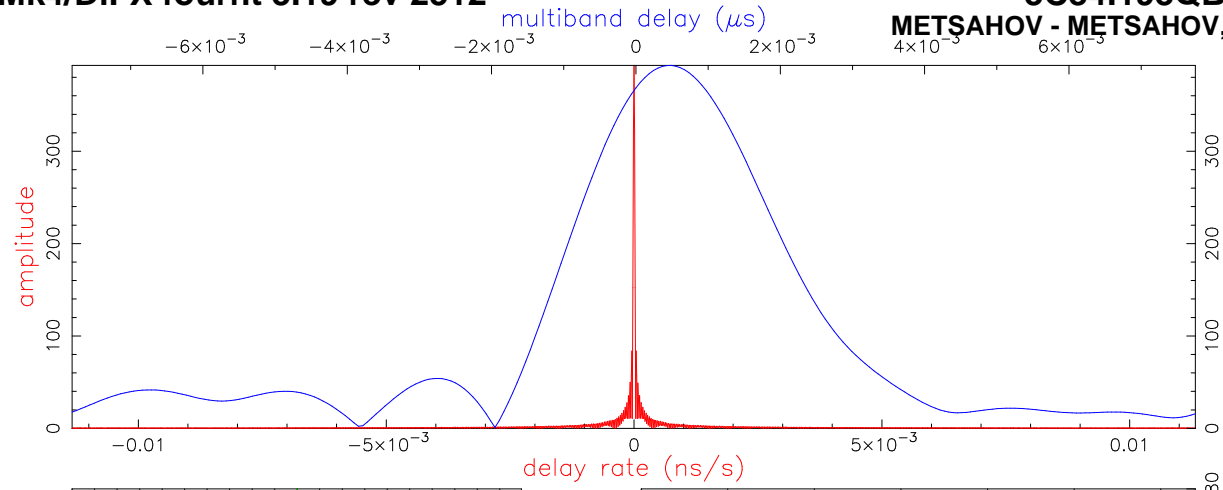
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0				
Z	1000	1000	1000	1000	1000	1000	1000	1000				
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
Z	1000	1000	1000	1000	1000	1000	1000	1000				
Z	1000	1000	1000	1000	1000	1000	1000	1000				
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL				
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
Group delay (usec)(sbd)		-4.64781250000E-04				0.00000000000E+00			Resid mbdelay (usec)	-4.64781E-04 +/- 5.3E-08		
Sband delay (usec)		1.92500000000E-05				0.0000000E+00			Resid sbdelay (usec)	1.92500E-05 +/- 4.2E-07		
Phase delay (usec)		2.42780332213E-06				0.0000000E+00			Resid phdelay (usec)	2.42780E-06 +/- 1.8E-10		
Delay rate (us/s)		-7.08557619584E-12				0.00000000000E+00			Resid rate (us/s)	-7.08558E-12 +/- 8.7E-13		
Total phase (deg)			75.3			0.00000000000E+00			Resid phase (deg)	75.3 +/- 0.0		
ph/seg (deg)	0.1	0.0							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	0.2	0.0							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	18.3	0.0							Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	39.5	0.0							Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
									Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

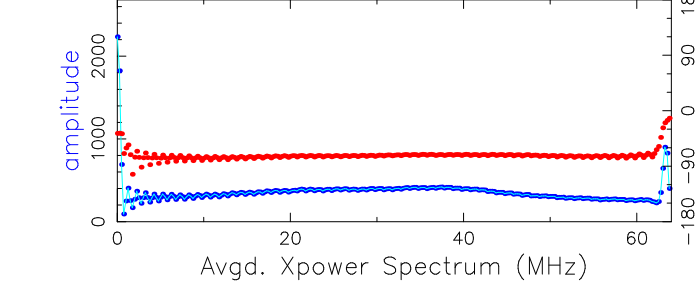
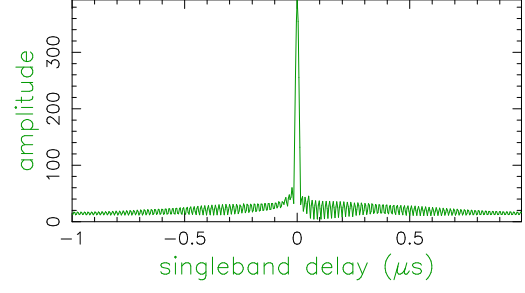
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZZ.W.257.193QBF



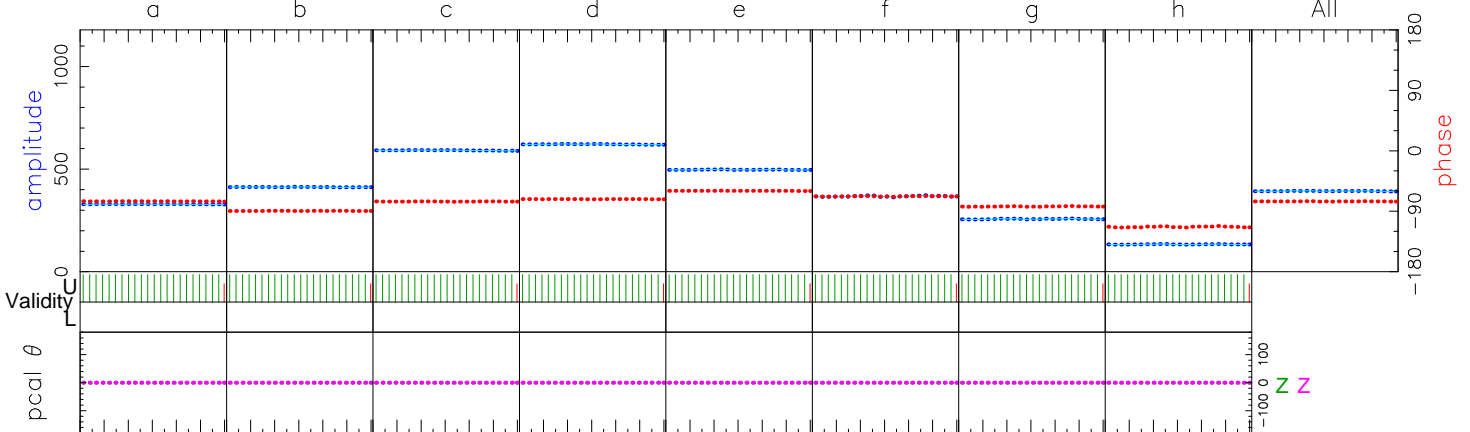
Fringe quality 7

SNR 20370.9
 Int time 359.409
 Amp 392.932
 Phase -75.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.000019
 MBD 0.000465
 Fringe rate (Hz) 0.000001
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122546
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-75.2	-89.4	-75.5	-72.0	-59.7	-67.8	-82.8	-113.2	Phase	-75.3
	329.2	412.4	591.4	620.8	497.0	367.9	256.8	133.5	Ampl.	401.1
	257.0	256.9	257.3	257.1	257.1	256.6	256.6	256.4	Sbd box	257.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	4.64781250000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.64781E-04	+/- 5.3E-08
Sband delay (usec)	-1.92500000000E-05		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.92500E-05	+/- 4.2E-07
Phase delay (usec)	-2.42780332213E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.42780E-06	+/- 1.8E-10
Delay rate (us/s)	7.08557619584E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		7.08558E-12	+/- 8.7E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-75.3	+/- 0.0

ph/seg (deg) 0.1 0.0 Search (2048X32) 392.932 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 0.2 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 18.3 0.0 Inc. seg. avg. 392.933 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 39.5 0.0 Inc. frq. avg. 401.125 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

Z: az 288.5 el 38.5 pa 39.1 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZZ.W.263.193QBF simultaneous interpolator